

## I will train you at home to fill a BIG PAY

Radio Job.

Radio's growth opening hundreds of \$50, \$75. \$100 a week labe every year

short but prace Sadip has grown from a \$2,00,000 observable influency. Over 100,000 pink have been of Bondrous more one billing speculos every pure by and growth. Man and young men with the right but is Miss of tracking I give pro-me model continua You have many jobs to choose from

to meny opportunities many N. R. L. men make BE to BRE a week while learning Talking Mevies, Television, Wired Radio inclu

forward beek of information FILES. that your copy taday. It tells you where Endfold is july any, what Hay play, total you along you me, what charse who have where it was discussed making. Find our when havin offers you, with the algebras obligation. ACT NOTE you.

J. E. SMITH, President Notional Radio Institute Dept. ODS Washington, D. C.

Our Own II Constitution of



of RADIO PARTS for a home Experimental Laboratory



am doubling and tripling the salaries of man in one year and

less Findont about this quick way to BIGGER

J. E. SMITH, President. National Radio Institute, Dept. CDS Dear Mr. Seith: Send me vogy book. Title

Attress . State .....

ifetime Employment Service to all Ora



UF. STORIES April, 1930 Vol. 5, No. 1

Renerimenter Publications, Inc.

PARTY AND PERSONS AND PERSONS

## In Our Next Issue:

THE UNIVERSE WEEKERS, by Edmond Heardines (& seeks in 5 parts) Furt L We are included to take exercising to gravity Furt L We are included to take exercising to gravity Furt L We are included to the control of the point of the point of the control of the contro to my that this surpasses the hest interplanetary spary by him that we have yet published. Read the first autabases in the May true.

MADNESS OF THE DUST, by R. R. Starel, Almany map of 'THE DUN', by K. F. Skirl. Al-though the story was written some time sign, an extract taken from "The New York Times" of December 21, 1530, gives almost weed for word a scalar description of an operation performed by a possesser glat this is only an increekt in an un-usual story, excellently told, and which contains a good bit of science.

THE IVY WAR, by David II. Keller, M.D. Here is a new story by Dr. Keller, based on the always inderegoing spleet of boards, dealing with a solvect that in fittle known as yet. The 'bry War' goes on it has good old Keller meanin, which seem of our resident seemed to have mixed recardy, it is absorbingly referently and plausible.

SYNTHETIC, by Charles Cloukey. By this time, Mr. Chukey has become a familiar and well-liked author in Amazon Scorras. In this story, by often us an exceedingly clover, write-mering avi-

THE NON-GRAVITATIONAL VORTEX, by A

In Our April Issue: The Metal Hordo

By John W. Combbell, Jr .... Remote Control Be Walter Kateley .....

The Feathered Descrive So A. Heatt Verrell.....

The Conquest of the Earth By Issue R. Nathaurre .. Rhythm By Charles Cloubey ..... 55

The Green Girl

What Do You Know? 

Discussions ..... 82 In the Realm of Books 

> Our Cover that arms depote a score from the stery existed, "The Con-creat of the Karth," by Isanc R. Nathannes, in which the communitation of the strange prefilters beings from the solution

Ada Harpy Problem Harry Problem at 100 of Jensey territor for the State of the Stat

April, 1930

AMAZING STORIES



## **Amazingly Easy Way** to get into ELECTRICITY

Don't spend your life waiting for \$5 raises in a dull, hopeless job. Now... and forever... say good-bye to 25 and 35 dollars a week. Let me show you how to qualify for jobs leading to salaries of \$50, \$60 and up, a week, in Electricity OT by correspondence, but by an amazing way to teach, RIGHT HERE HE GREAT COYNE SHOPS. You become a practical expert in 90 days ithout Lessons in 901 Work—in the Great Shops of Coyne



for Coyes men o

employment huren gives you s lifetime service. Two weeks after graduation, control F. Hart get a position medicaticies for the Great Western lightment at over \$10

REE Rook

Lack of experience—age, or ad

NewinOu

## WARNING **AMAZING STORIES** Subscription \_ GOING U Price

AST CHANCE to subscribe—or have your present subscription continued from expiration—at these Succial "LAST CHANCE" low rates;

One Full Year-Only \$2.00 Two Full Years-Only Three Full Years-Only

Offer Open Only Until April 10th

THE subscription price of AMAZING STORIES will be increased to \$3,00 a year, effective with the It would be decidedly unfair to put this increase in

We are doing even more! For just one month (until April 16th only) we are allowing all present subto AMAZING STORIES at these extraordinary "LAST Here's your "LAST CHANCE" to save from \$1.00 to

soring possible just at the time when the editors are contracting for the most miraculous Stories and Com-plete Book-Length Novels that have ever astounded

Contents of

Each Issue More Than Equivalent 82.00 Rook

in space. Weird romances of ancient forgotten civi-lization. Marceles of chemistry, electrons, calories and atoms. Our amering world 1,000 years in the future as Jules Verne would see the vision today! tional because they're crowded with sesentific facts! Each issue is more than equivalent to a hig library-rize

You Save \$1.00

You Seve 3.00

of adventure and remance into the glamorous un-BUT-to get the great AMAZING STORIES at such

pendous savings, you must not immediately, "I not Chance" Ends April 10

Mail Coupon NOW! AMAZING STORIES, Dept. 2104. 381 Fourth Avenue, New York, N. Y.

Continues: YES, please enter my subscription to AMAZ-CORE Your at \$2 | City of Years at \$3 | Cithree Years at \$4

Address









T. O'CONOR SLOANE, Ph.D., Editor MIRIAM BOURNE, Messying Editor WILBUR C. WHITEHEAD, Literary Editor

C. A. BRANDT, Literary Editor

Editorial and General Offices: 381 Fourth Avenue, New York, N. Y.

### Extravagant Fiction Today . . . . . . . . . . Cold Fact Tomorrow Natural Sources of Power

By T. O'Conor Sloane, Ph. D.

HR great watershed, which supplies the lake region of the world. All the water from this great watershed which reaches the castern end of Lake Erw, falls is one reights others over Names For In yory many places—perhers in the majority of reason a meson

stokers, is really charger than where rutere hands us over all the pywer we went in the single of downer water, such as we see at Nagara Palls, or as starry as impressure a way in the rapids of the St. Laverage Nover. In other words, that religity watershed could give to any are most trait tooks about not to remove our by private corporated by spring 15th free private properties of the great and the standard powerful of the great and the standard powerful of the stand

moded to the wird, and while there may be a rale blowing behind

# The Metal Horde

By John W. Campbell, Jr.

WHAT with calculating machines and robots and now perhaps even mechanical airplane pilots, there seems no limit to the possibilities in the realm of working machinery. We have seismographs that can locate the place of distant earthquakes, and machines that can solve, in a comparatively short period, problems in the higher calculus that would otherwise take brilliant mathematicians an endless time to do. It seems to us quite logical that machines might some day, perhaps in the distant future, be developed to solve for our scientists now apparently insoluble problems. Or they might even be made to state their own problems and work them out-in other words, it might some day be possible to have a machine with almost a working brain. According to our author, this will be possible and his final explanation of his idea is exceedingly clever and novel. There is no question Mr. Campbell knows his science and he has by this time proved his ability to weave a great deal of sound science into an absorbled scientific fiction story of exceeding plauribility.

#### Illustrated by DE PAUW

I would seem lack of generalship that permitted picked up those signals from the other we should not have received that warning that means so much to us, and at might well have been that this system would have acquired a new population. For it other way! Once I watched Steven Waterian save the civilization of the Earth, but now I saw him in a greater rôle, for it was he who made possible the defeat in working out the problem of the de-activating field without the precious hours gained by that warning, many millions more would have died before they could have

messages from the System government telling the import of those strange tone-signals out there in space. I are-or, better, its prevention. Waterson was fortytwo now, in years, but in body he was still twenty-eight for it was late in 1947 that he had taken Dr. Downey's

days, but it was not until July 8th, 1961, that they were located in space, and then man began to realize sprorthing

Waterson asked me to accompany him to the System Capital on Venus, and I was present at that first Cabinet meeting, and at each succeeding meeting. Again I was close to the facts-and again Waterson has asked me to

across space at a thousand miles a second to the planets

Their poal of ages was in sight. Stateen hundred years of censeless rushing flight had at last brought there year. relighty armies were sweeping their way across Mare

When the Normans invaded England, when the mighty copies that the San dynasty had meintained over sil Mars was crembling, that journey was half done. When Columbus first set foot on the shores of America, when Koral Nas formed the great union of the

But it was seven-eighths completed when Mara developed the first crude atomic engines, and when Priestly

of England discovered oxygen. And during the two



The great sphere and its attendant transports sank gently to the ground and formed a vast wheel, with the sphere as the hab and the transports as radiating spokes and the rim

contries of fight that remained before they reached their goal, there developed on those thry planets the instruments that were to throw that mighty force down to deboat. But I am so tell you of that war as I saw it; we have

detest.

But I am so tell you of that war as I saw it; we have all seen it—all too closely! It was really but a little move than a meanth that the Menace of Metal lung over as there on Mars, but to us it seemed years, accept to the frantically working scientists, striving desperately to discover some women to defeat them. David Gale.

A TINY gluening more in space it was, as it spot flight of the car sided by the grave of venns. The oil flight of the car sided by the grave of venns. The oil lab beau sugent, and the Earth had been in superior contouristic, the meant a full treatly-loss trip, error at 100 units a second, but now they were supercolling the state of the contract of the contract of the contract second to the contract of the contract of the contract and it took ivin many thousands of miles to bring the mechine down to a queed commatible with ammorbative contraction of the contract of the contract of the contract of the down to a queed commatible with ammorbative con-

others of the plants serond thick with truffer, trighty The air of the plants serond thick with truffer, trighty The air of the plants serond the problem to the target on torond. Earth, smaller private machiner, but more serve downer not future that the charged stand. There is more serve downer not future that problem to the charged airth, few with a true to turner in, there was no frend of spend www. Not it serond impossible to make any airth, few with a tribute the true that and airth, and a large managing for collectually the true three has a late mellium on the low of the little information must along and a large that the problem that the problem that the problem to the low of the little information must along and a large and the low of the little information must along and a large true of the little information that along the collectual and the low of the little information that all the makes and the late of the little information that along the late of the true and the late of the little information that the late of the late of the true and the late of the late of

The little slip doesn't sling the ground a since way, then received the received the received the received the great Systems Cayfoot. Two men came can advantal quickly no the root of the great Systems Cayfoot. Two men came can advantal quickly not be oberate reasons, where there garrels, armed with distinguishe ray projectors, greeced men responded with a suffle, and a fixed abuntation in the common language of the Systems, for these great men were Martinas, early well over right frest till. They carried the fit, and guidely said form one buffer sind the result of the sind projects of directly to the great Cabinet thanker, down through

ed directly to the great Calmet Chamber, down through the long halls, liked on each side by luge murals depicting scenes in the bistory of the three planets. Then they came to the cabinet room and catered. Thirty-rise mm were search there now, but as the two entered, they rose, and waited for the Precident to be

source, they one, and waited for the President in the source, they one, and waited for the President in the second source, they one, and waited for the President in the second late, day and all worked together, for they were selected as who had been declared to the selected source of the second construction. There was no rivoley, for each was the greated in this own field and fad no arginization; toward any other branch of secree. And none but econocide the power of the Presidence which to the greatest of them. Strong of the Presidence which to the greatest of them. Strong

"Gentlemen of the Cabinet, I am beginning to believe it is time we had something added to the Constitution forbilding Members of the Cabinet to rise on the entry of the President." Waterson deeply appreciated that confilment, as they all knew, but the could not feel as hare in an atmosphere of diffidence. He was a sciential, a planner, not a diplemant. I am severy I was forced to make you gestlemen walt for me, but as you see," but continues, pointing to the great map of the Systems or continues, pointing to the great map of the Systems or the planter of the planter in their orbits was being accurately those of the planter in their orbits was being accurately through "Earth is in supervisor configuration at pretent, and I could not make better time." I see from this memoratement that has been prepared."

"I see from this memorandum that has been prepared for me that Manael Korne, Martina Astro-physicist, in to be our first speaker. I take it you have had no official discussion as yet?"

cial discussion as yet?"

He was correct in this assumption for the men had
convened shortly before at his radio announcement that

convened snortly sectore it has rathe announcement that he would land within an hour, Some years before there had been some agiculon to have the Cabinet meetings exerted on by Radio-vision plates, but the low speed of light had made the speeches a terrible failure, as they would frequently have to wait

ten or even filten minutes while the radio messages were reaching them. Over short distances that method was practicable, but between planets light is too slow, it cannot be used. "Some time ago cur radio engineers developed a new intermental for detection exceptionally short source."

instrument for detecting exceptionally short waves. The really came under the category of the lenger best radations, but were detected electrically. While experimenting with this drives they have been consistently plotting up signois apparently originating in free apocetion of the state of the state of the state of the intensity has grown suffering and rapidly, and frem the results seen amoning condusters have been drawn. "They are explained gas prome source or sources our

in pace in the direction of the sun divine. I was added to high the radiation requirem under Bore Made in the high the radiation requirem under Bore Made in the high the radiation requirement of the result of the best of the result of the r

As not grain of region we can only make grown and, and, they we coming toward on with Schin-and dissimilation of order stars—at the back. Of all and and the stars—at the stars of the stars of the star of the st

and oxygen and hydrogen, but I believe you, Dr. Lange,

have made very considerable progress along that line, have you not?" "I intended announcing at this meeting," said Dr. Lange, "the development of a consecretal method of manufacturing any one of the smears and several new-

teins directly from rock or water, by a transmission and building-up process. The method has been develoced." "Then," continued the Martian, "there would be no

need of carrying any great amount of food. That "As there would be no resistance encountered in space,

speed of 1000 miles per second, on leaving Sirius it flown to the speed of a planet. Hence no great amount of matter-fuel would be needed to drive the muchine "But the problem of hearing seems to me to be in-

soluble. Interplanetary space we have the radiations cient, usually superfluously so. But in the Efficies derely reservoir for radiations. There would be continuous cooling by radiation, and no sun to warm the ship. I could understand how the ship might carry enough metter to warm it for one hundred years, but in sixteen entire mass would not suffice. Nothing short of an entire planet would be sufficient. Polished walls would reduce the radiation, but still it would be too high. I ean not understand it-unless these men can endure a temperature of but twenty or thirty degrees above also cept a few rare gases. No it seems impossible-set we have the evidence! I can not understand how they have

"There seem to be a very considerable number of separate signals that we can distinguish. I consider the two

thousand a very conservative estimate," replied Horus Mal, the Martin radiation engineer. "Then," continued Manual Korze, "we must decide on some plan of meeting them."

The Marting set down and for some time there was

silence in the great hall. At last President Waterson rose aloudy to his feet. His face showed his concessor In times of emergency he always felt that these men lions of human beings they controlled. And he was their leader, and therefore the responsibility was his son and handed him a small hand light and pointed to

the great map of the system above them. "I cannot be very exact, Mr. President; I do not know inward toward tiny glowing Mara. They were within

Ring of planets. Doebeless they who could make a their disposal, and probably the distreogration ray. They would have no difficulty with the planetoids, they could merely beam them out of existence if they came too near. The light snapped out, and each member of the cubinet turned toward Waterson again

"Gentlemen, we see that they are within the Solar System already and appear to be heading directly for

the Inner Ring, and Mars in particular, I do not know ean remorably say that they are probably invaders. We all agree that they have made a trip of some 1600 years' duration. We all recognize the difficulty of such a trip. There are over two thousand ships in their fleet. exploration trip of 1600 years-I do not think it is consistent. Then, too, we must allow them a life span thousand two bundred years before they could bring well have been wiped out by some stellar catastrophe. in nine years, the time light takes for the trip. Much as we would prefer peace, I fear we must prequire for war. But we can always go out to meet them peace-

fully, in a great bartle fixet. That might convince them at least be a protection. I suggest that we have a discussion on this, and take a vote." But there was no discussion, and the vece was unusi-

mous, for the President's suggestion was the logical thing. They had to be prepared for either peace or war. was a mere police force, designed to destroy meteors. turn comets or asteroids. There was no real reval ficer There were mighty factories to meet this demand of machines. That was the greatest protection we had sible. But we were to learn much of quantity occuleation methods before that year was own!

ORDERS were issued that evening to all the great plants over all three pleasets to begin work on a great quantity of ten-man-high speed ships. They were explosive bullets loaded with material explosive, each one equal to 100 tens of the old fashiound Dynamite. integration ray machinery was to be built by the commagration by meeting y we to making private power plants, band helps, and the imming belts. These belts had small projectors that threw a directional beam of force that tended to deform the curvature of space, at that point, and the result was a force that pulled the proicctor forward, for the space before it acted like a spring.

If a magnet be held near a steel watch spring, the spring

will bead, but it will try to straighten out and pull the magnet forward. If the magnet could pass through the apring it would progess, as the space curver appuratus was pulled through space. This was the principle of every ship now built, from these tiny two-loborram (nearly five nounds) marhines espeble of lifting a man

into the air, to the titanic new passenger-freight liners carrying as high as three quarters of a million tens. The principle of the disintegration ray was not greatly different and so the markings designed for tarning these

out in quantities were used to make the Dis ray apparatus with no great changes. The heat my projectors were made in quantities for

every purpose, they were used for cooking, for welding metals, for warming the borne, for melting down cliffs to make way for a building or a tunnel for water, for heating the mighty space ships, for anything to which beat might be applied to advantage. These would make very effective weapons but for the fact that heat rays could be reflected. They would bounce off the car of

the enemy without doing any damage if it were polished, as no doubt it would be Great liners of space were requisitioned and fitted with

Die rays, and with mighty attractor beam apparatus that would grip and hold anything short of another liner Each of the ten-man-cruisers had a smaller attractor beam by which they could grip an adversary and hold to his tail with the teracions grip of a building and yet not weary the oilot with violent movement. These shine were exceedingly powerful, and their speed was limited only by the accelerations the passengers could stand.

But all the scientists of the System were working chine that was a little faster, a little more powerful; although with recistance in space and with the tremendant energies of matter at their dianosal, there was little leck ergies of atoms, this energy had defeated the Martings. that memorable day in May, 1947, and it was a full ten

billion times mere powerful than the energies of coal, of oil, of the fuels man had known before that day. But they needed a machine that could project the Dis ray farther. Twenty-five miles was the limit, beyond that the tremendous electrical field that was used to direct it count he hailt up to so high a voltage that there was no practical way of insulating it. They must be satisfied with the twenty-five mile range-but the scientists were working at increasing the range.

They had two weeks before the Siriana would reach Mars, and in those two weeks much was done. There absolute truth was laid before the public, but there was also laid before them the evidences of Man's power. There were no conics. This was no weind thing to these the landing of a first from another world; it was as commonnisce to them as the landing of a fleet from the other side of the ocean had been a generation ago. The element of the unfamiliar was some and with it had more the element that renduces name that reduces the effi-

currey of a nation or of a System. New production machines had to be built, new designs worked out, new dies cut, but it was done with the quickness that a generation of mass production had

made possible, it was not new to them, this charge of

It required most of those two precious weeks to get the great machines working once more at their tasks, ing poured out, 5000 an hour, night and day, from the factories of three planets. But there was only one day to work before the Invaders would reach Mars, and the fleet was cathered, 120,000 ten-man shire, manned by the volunteers of three worlds. But in the meantime Waterson had had built for himself a tenman ship with triple strangth of walls, and

triple power plant installation, and an extra correy poserator. He was experimenting with it, no one knew on what.

At last the invaders were seen. Far out in their course the scouts had met them. Those scouts were destroyed, without provocation; they did not even have time to Mars was a descrited planet pow. All its population

had moved to the other worlds. Most of them moved to Earth, on the other side of the sun. Only the workers in the great factories remained. They were not compelled to. They were sold of the danger of their posttion, but those factories could contribute 1500 skins an hour, and they were manned. The fleet had gathered on Mary, awaiting the news of the Sirious, when the report of the scouts was flashed agrees the other

They told of a great horde of metal ships, shiring, bridescent, ranging in size from they durting muchines, ten free long by one and three-quarters in dispeter, more torpedors, to great transport ships. And there was a There were Sterolly handreds of thousands of the Strike torpedo-ships, a few dozen of the eargo ships, and a few ships that seemed more like secuts of some sort. But it was apparent that the little torpedo-ships were the real furliters-they ships that spun and carned and darted

like an electron in ionized gas. It seemed impossible that a man could stand those midden turns at several miles a second, but they wasched there, and went into nothingness as the Dis ray reached out from those tiny ships and sarcused their ships. They, too, had Dis rays-it would be a terrible bartle, for man had that same force, a force so deadly they had feared to use it in industry. But man had the

The men on the fleet who saw those television plates glowing with the story of what was taking place out show in space decided that those torned ashing court be

avided by make. If they were it would be a simple matter to wreck that system by using a powerful interference that world drown out the directing wave and make its ships usmanageoble The System Capital was temporarily moved to the

Waterson Laboratories on Earth. There the forty men had gathered around great television plates and were

IT was midnight on the pair of mars where the Street first struck. The fleet of the Solar System was musted T was midnishe on the part of Mars where the Siringt there to meet them. They seemed headed for the michay ofearning city of Metal, below. Dorrollas, the second city of old Mara; was there, and they seemed bent on reaching it. As the Sirians drew near they threw forward a great shield of the torpedo-ships; then the great

generators on the Solarian floot forced termendous of the tiny ships become erratic, but they darted about as steadily, as easily as ever. These Sirians must be small men! And they must be from a massive world. a world that had accustomed them to great accelera-

Below them the city was deserted except for vision from a thousand points. They were broadcasting the message to the worlds and to the commanding officers for radio waves travel too slowly. Twenty minutes each way the waves took and in forty minutes the bestle was

of terrific corrage!

As the two great fleets came into contact, the Solarians drove into the mass of tiny ships, their Dis rays fleshing that it was nearly impossible to hit them. And they seemed to have no comparation about raying one of their own ships if a more than equal amount of damage was inflicted on their enemies. Logical, no doubt, but how

The sky shove the city became a blasing hell of Dis rays, best rays, and exploding shells. The explosives

The Scienian float bad a solid projectile of a simple It could penetrite the walls of a thip and bring it down. ploded or merely disintegrated before they reached their goal. A crystal of way sort was immune to the Dis ray, known way of deflecting the Die ray except by that be made to surround a ship. The copper crystals were used malely to destroy the Dis ray projectors of the enessy. They were fired at the faint glow, and with back

The sphere and its escort of transports have back,

And at last the Solarian fleet was recalled. It was not

city must fall, and it would be easy to crush the Sirians with a larger fleet. At the rate of 5000 Selarism shins an hour, they might well do so in there days. So the Solar rians left, and behind on the ground there were a few ships; a great number had been rayed into nothingness, The Sirisms had won this first victory, but the Solarians could soon make up for this loss. They had twenty billions to back them up, and they had the resources of three planets. It seemed as though the invaders could not last long, but we had yet to learn the true meaning

of smas production. No man could have around the encarepment of that allen race. But above them television becodeasts were

suspended, and some were installed in the buildings of the city. But these were of no avail, for the String accorded obsessed with the idea of making Mars a true and several news projector men lost their lives. It was foolbardy to stay in that city; they had been forbidden, scoon. The prolectors which hung show continued to

The great sphere and its attendant transports sank anhare as the lysh and the transports as radiating spokes and the rise. High above them the darting torpedo-ships that not all of those news projectors were destroyed, but some did last till the early rays of the sun set them off as shining targets for the flashing Dis rays. It was a

Now from the sides of the great transports came, not men, but great machines, machines that lumbered along perent ship, one from each ship, and proceeded to disthereselves in, about three feet door. Then all second quiet, except for a steady hum from the great machines. fifty-cight in all there were, great machines-fully twohundred feet on a side. They worked there quietly now, for they could not be seen. Apparently the Sirians dured not come out into the Martin atmosphere. And now something was happening that startled all the hillions of watchers on the three planets. In the top of the great muchines was a small trapdoor. Through this, there eleven seconds later another came forth-another-each machine there was sending them out now. One by one those machines released a torpedo-bont-one every eleven

peconds, with the regularity of a clock, At first men could not grasp the significance of thisand one each eleven seconds came from the end of the production line, complete. The noises there were no lorger a gentle hum. There was a whir and rustle of

machines. It was not loud, though considering the mighty works that must have been going on inside. But strail-Hy now that durting fleet of tormedoubles was increasing the power for all this work was obvious to these own who used similar processes in their work. From the soil below them the muchines dur masses

of matter, and carrying it up into the mackine transthat production rate was staggering! One each eleven seconds meant 325 completed machines on hour.

There were no signs of any men entering these ships, or the machines, so it seemed there must be some mount of distant control that man knew poshing of for it was

improbable that all those men could have been in the parent machine from the beginning. No wonder the Sirians could lose these machines so freely. The ability to make them automatically from anything meant they cost practically nothing and could be produced in limitless genuity. The some that Man war to be arr vary there was the subsequents. These medium were real task disappearing. These medium were coming to form an ever-growing ideal of wheeling alphaging. The subsequent of the plant is a wheeling alphage doze losses. Mit has hed byte marry a third of his period losses. Mit has hed byte marry a third of his both. It was not even a visiony, and it had cost Min for something from them, though. Purhops and consecuting conditions the subsequent of the subsequent of the subsequent could called must be do on equal around of though

of thirty thousand radio-controlled muchines.

N the meantime a new thing was attracting the attentinn of the people on the planets. A new set of muchines was Issuing from the transports. These were smaller than that first set-low and sount-but they seemed far more flexible in their movement. They went off in orderly line to a point a few miles distant from the two groups. One group remained still, but began to plow faintly, and a hurn caree to the televisors above. Then there been to flow from a spout on the side of into a somewhat similar arrangement on the other group, then these moved quickly away, and with their atritizes handlike appendages began to work quickly at a great rounded built that was rapidly forming. The men watching understood. It was to be another cargo ship. Rapidly this bull even under their swift manioulation, till it was completed in three and a half hours, to work there started from the original cargo shops a long line of small, enick moving machines, machines that could run along the ground or drive through the sir,

office, territory for Indi, and working at it. The scool but was easily completed when one of the smaller mediane flow bade to the output examptors of which was the state of the state of

erew was already at work, making others! With the coming of down the tilevisors were rayed out of existence. But that exeming more were installed, and every night during all that invasion there floated above them those noticies televisors. They destroyed

many, but many remained.

That night showed us a fleet of nearly a helf million of
the tiny torpedo-shipe, and a rapidly growing cargo thip
camp. There were more than a bundred now, for as
each was completed, the machines made could aid in

Des rays they on done very remains of the Mattini, the very from ton litter the entire based was not varie featuristic point. And on the plain faces had been plained to the plained to the plain faces had been being to be the plained to the plained to the plained being the plained to the plained to the plained to the locar sheep did nothing. But Man was propored. The the entire flow was assembled above the outline of Mans, show that original comp, where still rested the real plained to the first of the real contribution, and we also give the plained to the plained to the plained to the real plained to the size of the real plained that the little of the plained to the plained to the plained to the plained to the real plained to the plained to the plained to the plained to the real plained to the plained to the plained to the plained to the real plained to the plained to the plained to the plained to the contribution of the plained to the p

And that night they began their work of leveling

But now the radio-controlled ships were released, and pennitted to drop, uncontrolled. They wished to give the Service on warring. Then when the shine were scarcely ten miles from the Sirian ficet, they were brought under control, headed note down in a power dive, straight through the surprised upper layers of the the ation below. Suddenly, there were great gualies in the ground beneath, and twenty of the cargo ships were But while literally thousands of the Sman torpedo-ships had been rayed, nearly helf of the thirty thousand radiocontrolled ships of Man were gone. And now they had to apply full power to prevent striking the ground. But the great subere. They were rayed by a bundred thins before they could get really separated from their coming hundreds of the Sirians, they were formed in a vertical column reaching up ten miles, one above the other, with the nine Dis ray projectors going full blast and columns as rapidly as was safe less the mechines fly practically instantaneously. The top ship was preventof the slope stopped spirming; its Dis ray went out and they dropped like rocks. The radio control had been lower under the valuence of the men, and they had cessed to function. The radio-controlled-ships would no

MEARITY the main date of the Shitas tropolo-obligable had been signed on the just assume geodems. Now the had been signed on the just assume geomes, the state is a substantial fact. Every one of the ermailing shit up to meet the obsessing facts there were resplant row with them, and armup them. Suddonly the articles are some steptical in the days of a greater state one steptical properties. Suddonly the state one was the state of the print of the print, which is the state of the print policy of a greater to probe high suspect on their De rays, and esteroid, and the state of the print policy of the print policy of the print of the print policy of the print policy of the print of the print policy of the print policy of the Schotche for thistowy, southerny which to do not the Schotche for thistowy, southerny which to do not the Schotche for thistowy, southerny which to do not the Schotche for thistowy, southerny which to do not the Schotche for thistowy, southerny which to do not the Schotche for thistowy. and the couple sharp been even applicated, and me a Seriam held but unity been even on construct that sharp been even to construct the they lost more before the mightly feet of thoughth-sharp from the other compare reason them. For now and then an explosive shell would proternet the server of distintant explosive shell would proternet the server of distingration mys. But within the touter shalled was a second, variously a shield of metal, for the metal spore was surrounded by a shiel muss of the cooper-lossings. But survey metals the same of the same and the same of the same proposed to the same man and the same of the companies of the same companies and the same of the companies of the proposed to the same man and the same of the same companies.

mission by the cooper crystals.

On the arrival of the great fleet from the other camps the talks were turned. The control slips had too low an acceleration, and there were turned to the terminal machines to get, though they tried to be the minus machines to get, though they tried as section 100 in gray that aspept the slips in the they were rayed out of existence. Many of the control slips were foot and samp of the terminal strip of the control slips were foot and samp of the terminal strip.

loss and samy of the ten-man strips.

It was then that Waterson associated two things that
gave the Solarians new hope.

It was the fifth of August when the amounteement

It was the fifth of August when the automatories that the active dest from till the cargo and the state of the first that the state of the first that the active dest from till the cargo and the state of the few cargo, but the surface was all term great undergrown bases on Men the few cargo and the state published that the foliable that the first published that the foliable that the first published that the foliable that it is due to the first published that it was stated to the fighter's core. This had convergence on the same of the first published that it was staded they expected the foliable foliable that it was staded they expected the foliable for the good of the first that is was staded they expected the foliable for the good of the first the good of the foliable for the good of the first that it was staded they expected the foliable for the good of the first that it was staded they expected the foliable for the good of the first that the good of the good of the first that the good of the

So perfoly, concentrated were the Soutent index that they are white main of the comp window shore that they are white main of the comp window shore the soutent that they are the soutent that th

That raid was measured as that it forced the immediate terms of the Stram fieet, and very marry destroyed the stram for any very marry destroyed the sphere. Ours executives to thousand of the incepted only severed districtly, that the lost two thousand the sphere. Strine would not Surger be able to compe became of their general research their destruction. He had not became the surger became of their general research their destructions and their research that the surger became of their general responsible to the control of the surger became of the surger became of their research considerable, and the surger became of the surger became of the surger became of the surger became to such as yet the surger became of the surger became to such as yet that no market what is market what is the surger became the surger be

the accelerations might be, no matter how great, as long as they were within the limits of the ship's strength, the accelerations and centrifugal forces would be invers that the sudden forces but before made impossible A demonstration of his new ship had confirmed it. He took up a number of the Cabinet in his special machine. and turned hairpin turns at ten miles a second! The acceleration would have been instantaneously deadly had those neutralizers failed. They might as well have been under a half million ton freighter as it lended, as undergo these accelerations! But in that perfectly balanced room, it was not detectable. The shin's built was made triple strength, as were the power projectors, and the generators. It was powered like a freighter, and could reach its full speed of 1,000 miles per second at an arceleration 5,000 times that of Earth's gravity. Waterson, who weighed two hundred and ten pounds on Earth would have weighed over five tons! It means that the Solarian fleet would no longer be handscoped by the

greater flexibility of the enemy stigs. The plants that lind been mean facturing the mediums had already closed down temporarily, while the disa for these new machines were being made. But within thirty-six hours the first of the machines was being turned out.

And now a great crew of young mea were being were to be one million abics, and that meant ten million men would be needed. Only modern methods could have made that possible, but with three populations totaling over twenty billions, a sufficient number of volunteers came forward to make the work easy. As fast methods had belped. The Waterson system of material the interplanesary models not more than two thousand abodutely free, the labor was mechanically reduced to almost nothing, and as the energy that drove these machines was as cheap as the raw materials, they enough charged enough to make the venture may a decent return on investment and to pay the wages of the few madium Supervisors and the office staff. Men worked five days a week on three-hour shifts in the factories, but longer had to marriedly control the building construction may mais production science, since that meant an unvaried. monotonous city. But everywhere wages were high, for wages depend, not on the amount of work men do, but on the amount of finished product they can term out convince the Earth of that, but the example of American cough. And then the influence of the mighty energies Waterson had released made it even more separent.

Mars had already developed the system under the force of the released atomic energies. High wages and disap machines had meant that everyone owned one. And so abeclutely safe were they that they economically perfect confidence. This had been a king factor in the misking of this mighty fleet. Everyone knew how to operate the muchines, so it was easy to fall the places on the machines who plotts. Neverthelans, special trading was necessarie to over-Neverthelans, special trading was necessaries to over-special trading the special trading tra

was described in the season of the first manifester, but does not the fair was well as Earth while terrife saudden concentration. Then, but when the student felt certain they would crash and because a mass of motion ready, the day was benegitd when the student control of the student control control control of the student control control control control of the student control c

experiment with.

But mone of these men had ever hundled a weapon of the sort they were to use, so mirrie battle practice was held, with the glowing rays of a harmless ionlaing

DAILY reports were coming from the Maritim scouls to do some force building, for early three-quarters of their fiber had been decroyed. The production rate may fiber had been decroyed. The production rate may's facetees, 120,000 a sky, had guind a skept tend. It would require ten days before a fleet of a million could leave for Mars with a tono; guard of two-bundered

thousand ships.

The destruction of the Martine plants had been a The destruction of the Martine plants had been per up region to produce a produce per up region to produce a p

more effective as long as they had no ship to protect. There were twenty groups that practiced that moreaver, And then Waterson opposited that an associate of his, working in his laboratory, had developed a method for using a triple electrical field to direct the Dis ray. making possible a ray with a range of over sixty miles. This would be absolutely fatal to the spinning sphere system of the Sirisus. The Sirisus very evidently did not know how to project the Dis ray any further than twenty-five soiles. The ability to stand off sed but them would break down the sphere of Dis rays very quickly. There was only one objection. The rays were very powerful, so powerful that they required triple power experitors, but the special field of electrical force was firstely street if a single laws of the force was used but the invention of a method to back up the first with two other layers of equal voltage, thus getting nearly

three times the effect without exceeding the capacity of

the insulation, had made the new machine possible. This

special field was produced by circularly moving outlook mys, or executingly ligh valiety electrons, and therefore could be produced only by stonic methods. This meant en thousand cliess the suncut of fuel a similarly powered muterial engine would have required, but material energy of corner joilds only nave motions of the stransient or unstate type, a type that cannot stand still. Attention energy only yield attach-awares as well as unstated, the electron can stand still, and is a perfect cample of the stationary wave.

cannia de the sintinsary wave.

These limitation, in turn, meant that a tremendom
weight of opiguant was nobiol. And a corresponding
weight of opiguant was nobiol. And a corresponding
to the control of the control opiguant
graphy reinforced religion to early the
great projectors, each of which nobid early but two
projectors. Each of the top graph, however, the ship
make and copil; more than trenty-right of these ship
heat of the control opiguant
has the control opigu

It was really Dr. Watersen's suggestions that made the thing possible. We had learned something of spatial worfare formations from the Sinians. Now we were to learn a bit of the stratem of mails benefits.

Title Salarian ther saled for Mars on the fifteenal of Anjana; blick. Trey were a sour terrory mixed of Anjana; blick. Trey were a sour terrory mixed of Anjana; blick. Trey were a source of the Salarian Source of Salarian Salari

The Solution feet openiment on for Mars, They and the solution feet the remaining distinct—twenty middle and cover the remaining distinct—twenty middle in the solution of the

Only no and a hell beam late a sect cost me to the total control of the section o

million, and the second million later-separately. The trip would take them sixty-two hours. Scouts had been sent shead to Earth at a dangerously high speed to comits speed to a rate that was considerably higher than safety warranted, but a continuous play of Dis rays was considered sufficient safety at fifteen bundred miles a second. The Sirian flost had been reported to be making thirteen hundred and fifty, so the Solarisms should nasa them, or most them, just shy of the Earth. have no difficulty to crush the Inveders with the two

milion shins. The radio interference was being maintained by a

ship anchored somewhere in space. It was no doubt well protected, and to attack it successfully would have meant the loss of a large number of ships, for the time spent in the attack would delay them irreparably. They must

continue to Earth. There were no scouts from the Sirian fleet-yet there should have been, for over a thousand ships had been following them, far behind. None ever reached Earth to warn the flect. Every one of them was destroyed. But when the Sirian fleet was well on its way-it let that one acout reach the Solarian fleet with the news their course. The scouts from the Solarian fleet did reach Parch but soon after the last of the prouts folbarrage was lifted. All the ables on Venus were concentrated on Earth, and Venue was left unprotected. Turnty hours after the first had turned back, the

radio barrage was again lowered over the System. It While the radio barrage had been lifted, Waterson for the planet. It did not seem that the planet should staty-rife range type be set up. His surpostion was were installed. There were many of them now, for during the hundred hours the main first was in flight the new machines had been put on a quantity production basis. But all the ships that were equipped with those, were sent to the defense of the unattacked Easth! And it was those mochines that prevented the landing of the Sirians. They came to the night side of the

hours before they would be expected on Earth-thirty hours before the main first would reach the planetand then there would be the 100,000,000-mile trip to Verus if they were to get there in time to rescue the planet. But the Sirians could not approach within beaming distance of the cities, and all those that did try to do so, were brought down as a cloud of powdery dust. It was Waterson's caution that saved the billions of people on

But were they to be saved? The Siring decided than most destroy the works and the people on Venus an they made one despecate effort. They had at least sixty hours to work in, and now they had a plan that would and the entire body guard of the Sphere lined up, and then switched on powerful attractor beams. Immeemerations took hold on the planet, and great tides began to rise in its mighty oceans. Many lives were lost in the seaside towns, when the tremendous waves rushed in over the band. But astronomers on the planet and most of the System's scientists were there to watch the Sirians on Mars through their great telescopes. And these astronomers saw what the Sirians intended, and saw that they were well on their way to fulfilling

A PLANET is balanced in its orbit about its parent scales. But, like the diamond, if it be displaced by some force, it reaches a new state of equilibrium. Thus, if the diamond is further lowered in the scale by adding a small weight, it soon reaches a new point of equilibrium. No conceivable force, therefore, could be great enough to displace the planet in its orbit more than a few million miles by pulling at either in toward the sun, or out from it, and as soon as that force was released, it would suring back to its original position as the diamond would regain sun pulls on a planet with a titanic force; at draws it at with the apparent force gravity, and another similar, its orbit, is constantly tending to throw it into the derebof space. These are the two forces that are always halsucced. Suppose the planet is drawn nearer the sun; it revolves in a smaller orbit - and it revolves in that smaller orbit with a higher speed-for it has fallen in would. It has gained speed in the derection of the sun-Thus it has gained a greater contribugal force-you can ace the effect with a bit of chalk on the end of a string. The smaller the circle it awings in, the greater the tendency to fly outward. But so long as we continue the force that was added to draw it in, it will remain in equilibrium. Remove this extra force and at once the

planet will fall away from the sun, looing speed as it does so, till it less reached a point where it is cuce more Now reverse the problem. Let us draw it away from the sun. Now the orbit is longer, and it has lost speed in moving from the sun. It cannot stay here, it is not in confibrium, upless the force that drew it out is essinturned. To free the planet from the sun, one would have to lift hundreds of quintillions of torn of rock through

billions of miles, against the terrific gravity of the sun It is too much. Thus we see that as long as the planet revolves in it-

orbit, it will never fall, and to pull it away from the sun is impossible as long as it revolves in its orbit. But if it slows down in its flight about the sun it at once has less centrifugal force. It automatically falls toward the sun until it has gained velocity enough to establish a new orbit of equalitrium. If this cuerry, too, is withdrawn; if it is made to stand still in its orbit; it will fall straight to the sun. It is the culy way such a thing might be done. And it would take the energies of matter.

This was the plan of the Striams. Three million shine

wheeled in its orbit, and slowly, steadily it was falling sixty hours at their disposal. In a short time it would be falling directly toward the sun, but it would take were stooged before it reached the sun, any place within twenty million miles would be unbearable.

would never reach Earth, for the radio was still dead. But the fleet turned for Venus at once. They were fur to one ade of the path to Venus, and they would have to turn, but it would take them thirty, instead of sixty hours to reach Venus. And the other flor was coming from Earth. They were not quite a million strong, but those machines that had been produced on Venus would come also, and that would bring the total numbers up to over a million, and with the main fleet the number would be well over two milion. There were also three hundred of the long range Dis ray ships now, for many more had been produced and Venus would supply an

WR can only admire the wise action of the Commandant of the Venerous fleet, Mala Hotark, in not sending has pitiful fleet of a few thousand out to fight with the Sirans. The members wanted to, the people of Verns worted him to but he whele waited until he saw the fleets of the System approaching. It would have done no good, and lest many lives, and valuable alone to have gone in advance to the attack.

chines were freed of the task of stopping the orbital The two great fleets were drawing nearer to the planet, converging, and at last they got so close that they could

earry on a radio communication by using the terrific power of over two bilites kelements of energy. The has been estimated at a minimum of fifty billion kilowaits. We know that enough power could be picked up from a hundred meter acrial on Earth to coerate a smell, high frequency motor.

When radio communication was established, they agreed to wait until they could ioln, for the fleet from Earth year two hours about of the main fleet. The last of time was made up for in greater efficiency of action They would need it all. At last they joined fleets, one mighty disc of two million airships, they flow on through miles an hour. They arranged themselves in a mighty cone as they came source Venus. Already the machines a militon miles out of her cebit, and rapidly adding to

But now as the great cone approached, the great ships with the long room Die rave leading they were discovered. The cone formation was chosen, for that is the three dimensional equivalent of the two dimensional

Now began the greatest battle in the history of the System Here were two mighty forces shahing at each other with terrific disintegration rays, fighting in the great Void, and five million powerful ships darting around, slashing, stabbing with a death that struck with the quickness of light, As the great come of the main flost attacked from one

side, there was a smaller cone attacking the Sirians from the other, but long before the Sirians could bring their rays into effect the long range rays had torn great holes in their ranks. The Sphere had retired with its excert or once, coing swiftly to Mars. The main fleet was ton busily engaged in fighting the Striams' main fleet to worry about the Sphere at present.

A descen times the great spirming sphere formation a soluting block of wood cuts it down its the lathe. Their strongest formation was uncless, and they could no longer outmansurer the Solarians, the new alipa could turn and dart as quickly as they, or even more quickly. The big Dis ray ships were not equipped for sobere formations to break up, they retired to a safe distance, and waited for any ships that might attack them, Few did. It proved suicalal. But stendily the forces of man were conqueries. In a helt of flathing Dis rays, the new ships were proving their worth, The

but the fleet of the Strians was fast going. The new fast shins of more could deduce the rays of the Sirians. turn and durt on the till of their attacker, then hang there, the attractor beam giving them an added grip until thry could flush the reaching into nothingness with the Die ray. They turned, ducked, darted shead with terribe speed, suddenly stopped, and then were going that suffered; they could not keep up with the sudden turns of this flexible adversary. And their great fleet had been reduced to a scoot orgener million, but we had Tilanic struggle. Such a hantle could not last long. It was impossible. Nothing could stand before the Disrays, and with those turning, darting ships, sooner or or later every ship must come under the lefturnes of those rays. But now the last of the torpedo-ships were fleeing into space. But we did not care to have to fight them senin-and they too were raved out of being,

But now the first returned to a greater task. Vecus had been falling toward the sun, and was nearly a million and a courter miles off and within her orbit. Now a great fleet of cargo earriers from Mars. Versus and Earth came up, and with them came wrecker ships, expable of picking up on their powerful attractor beams an entire million-ton passenger-freight liner-great liners they were all using their power to bring the planet back to its normal speed. It did not take the ships of that mights fleet many assertly desired for heavy litting

They could no longer dart away from us before we could eateh them-that was for us now!

and towing, mone designed for tremendous loads, very long to bring the planet back to its age-old orbit

by remir. But this later progration had learned to trust in the powers of the ships they had, and there had been little of the terrible peofe that would have affected the world of a generation ago. Then, too, they knew that with the demonstrated power of the long range Dis rays, they could safely convoy a fixet of the great posserger liners to safety.

inters to sately. What he feet that the himses min-What he feet he in significance of the fall into the same, I you were not that the option of the fall into the same, I you were not that the surgicised, herriffood, and would probably try to make a bargain-lawy on real exists, which the other man sall is to get his meany out. You would wimply fall to comprehend the magnitude of the cateropice. It has a never happened, and to see that the same and we mean the control of the law of the cateropic in the same that the same is the same that the same and we mean the same it. Your not the same and we mean the same it. Your not the same and we mean the same and the many would seen, but most species would say off the

actual physical load of the sum drove them off. We are constituted that way, under one does, and sees from constituted that way, under one does, and sees from the Martini recents made one horizon. The ermolising that the constitution of the constitution of the constitution of the desirable constitution of the work. The number green is a stoody generated a stress, the the scenar work driven also we for service do for.

fiscing victor machine.

The not has we understood the ranson for this tree.

The not have understood the ranson for this tree was a great mething mass of most aeroned the workings was for the result of the resul

gether, and steadily the great fleet was being sugmented. Before morning that feet had restabed two busined thousands, and was now growing at the rate of twentyflew thousand no hom. Seedily this new was increasing. The fleet was too large to be stracked by man's weak-rund fleet, for the delay in putting Verma back in its orthic had given the Sirinas a chance to build up an invaniersable fleet. The added time of the rip to Mars meetar a still greater fleet. All ready taked processing was a greater than Marti. Man eachd not hope to evenpeet.

production.

Had is been possible to attack them with the long range Dis rays it would have been trical, but the plan was kopeless. Before the fleet covide reach them there would be 1000,0000 miles to go to reach them, and it would take approximately towary bours, in which time, at the present rate of increase, the Sirian fleet would have reached a total of these militon again. They would share reached as total of these militon again. They would share the property of the state of the property of the pr

with the action of the Dis ray ships, and they would need help, for each ship carried only two beams. More could not be carried. They would merely be held at bay, unable to attack their goal, useful only in becaking up the spirming sphere formation, but that could be prevented. The Solarians had learned that trick from the spirming column formation by simply getting into the midst of it before it was formed completely. It required st was always done. The long range Dis rays were excelcause of the terrific weight of the apparatus. They could not attack the Sirian floet. If they did the production machines would have been so built up by the time they reached the planet that any ordinary rate of destruction would be easily equaled by the production! Within three days it was decided that the Sirian fleet would be built up enough to attack. They would then attack our planets, no doubt.

A CAINNET meeting was called at the Waterson As Internatives to Earth. There Waterson fart these naturates the weapon that finally conguered in the ter-first struggle. Boffere the remember, on the Califort this was a small portable material corray deistergrates, a residue that gave of its energy as light. There was second machine at the other red of the table, a meetine that ecoupled about two cubic fort of space, and on one offse of it was a armilla worth and a dial; on the other was a familiar booking projector.

Gürdünen al dir. Calitat: 1 have bere a now mere clerk that my hatterney has developed. 1 will demonstrate the calitate that the calitate that the calitate that the calitate that will demonstrate the calitate that will be called the calitate that when my defendent pages that the calitate that the

Teachine, the motion will produce a full, from the first and will be morely the proportion of upon as in smale it entirely impossible to dissequently as a small and the first and the f

because certain of the values we can assign operate to

force space to take such curvatures, that any change of the condition of matter to condition of energy is impossible. On release of the ray, the space returns to

tes normal curvature. "Weeking out the theory of this machine bus been a tremendors task. Even the great calculating standing, the account of the continuous states of the continuous cont

that the correct values in the four true dimensions might be desternabled.—But there is still a great deal of work to be done. "But there is still a great deal of work to be done. We must develop practical mathems of a range of many rather. There is no difficulty in using the ray, since, as it is a condition of space, not a vibration, it is impossible to stee 2 by any which! There is only one way to work

with it, to crease it directionally. We make the field by projecting certain stealins along a beam, then once started the field follows that line to a distance dependent on the attempth of the generator.

strength of the generator.

"But this will require as least five days to get into working form. I suggest that in the uneartime Venus makes several million of the long range Dis ray people-tors, and distribute them all over the planet, so be turned on from a central station, or by their own separators, retwen. I have no doubt that the Siriains will attack that

sees, and distribute mem all over the peaker, so so turned on from a central station, or by their own separate crews. I have no doubt that the Sirians will attack that plants before we are ready to attack them. Earth, too, must be prepared. But in the manufum we can begin the work on the new detactioning field projectors, as I call them:

Waterness was right. It was three days later that the Material of the projectors is a constitution of the second of the sec

Sirian fleet left for Verus with a number of tornedo ships so tremendous, it is absolutely inconceivable. There were over two hundred million of the ten-year reachines! When they started to settle about Verus, the many miles. They attacked at Horncules the System Capital, but the fields of the great Dis rays were too much for them. Neither bombs nor Dis rays could reach through. The pir was dense, and filled with artificial anable to prevent the transmission of heat rays and arest winds were created for the nurcose of carrying the best away; but this was done automatically by the expending air before long. They could not attack the city. All over the face of the planet were the great Dis. ray emplacements. Great align hung even over the great rolling occass, sending the bine cays of springed air up like some column that was to hold the Siriers from the

Please. And they did.

Dut now sight help begin to slow down the plantand gently as they had bed to know-her rigidly as
ing gently as they had bed to know-her rigidly
to get the very attactor beams that were pulling on it tended
to reflect the stress. But the engs slogs of Venne
strategy thing to contemplate! Two nigidly factors, one
after of two hundred million small solys, the other a
feet of two hundred million small solys, the other a
strength that to contemplate! Two nigidly factors, one
and the strength of the strength of the strength of the
strength of the strength of the strength of the
strength of the strength of the strength of the
strength of the strength of the strength of the
strength of the strength of the strength of the
strength of the strength of the strength of the
strength of the strength of the
strength of the strength of the
strength of the strength of the
strength of the strength of the
strength of the strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
strength of the
st

mented constantly by a steady stream of ships from

es made their Watersom had a fleer rendy to strated his Sirlains. The Venerium also had not seer rendy, prepared by the directions of Waterson's empireers seen its yeards tollerishin and radisplasme. They were rendy to anasel, a and the Terrestrian fleet arrived at Venus jost wix days a direct the announcement of the new weapon. The practical projector of this new vs john the require heavy, and they had been mounted in groups of

quire bisavy, and they had been mounted in groups of reversy popietors on special hundredown ships, unite Be some acceleration mentalizer used on the stensor ships. They were enranged to there we whole beam, so which that he are ships the textry, could approve any the state of the state of the state of the state of the in a cone with a base of six hundred miles dismeter. This ships they had could approach width a hundred miles of the Sirins feet, without height seen from the were posited black therefore and showed no lights. In the darkness of the void they were easily holden.

THE ratio expedition went as planned. The ratio bearage bud not been turned on, and they were in constant communication with the Venezians. The two fleets were to also a timuluncously, over different areas, so that between them they could wipe out to large a number of the enough ships that the fleet of two million could easily handle the table.

could easily hardie the tools.

Hidden is the water dark of the void they crept up on
the Siries. They were in the smalpti, but the block
the Siries. They were in the smalpti, but the block
the siries are the small tent to be the great core formstion was within easy striking distance of the fleet. There
exacted out the sirange ray, and here in space it was
unterly siviation, the smallestly the singe within its range
tion. With once swoop they all that to stooned the ships
those. With once swoop they all that to stooned the ship

had been turned on them. As the great mass of ships fell rapidly toward them, long range Dis rays reached out, and they melted into clouds of shimmering dust. Great swaths were cut through their ranks. A similar scere was taking place far to the left of the Terrestrian fleet where the Venerian fleet was working havec among the invaders. Now the last of the shine had been raved into nothingness and a great float of the Sirians were rushing forward to attack for the ships invisible on account of their black line had been electroscatically located now. But as the Sirlam came within one hundred to change direction; they just drifted straight into that come of Dis revs. All walls of the descripation field were lined with the ten-man ships, their shorter range Dis rays prevented any Sirians from escaying. Bright lights abone out on the Solarian fleet now—they wanted the Sirians to attack. The original cone formation had shifted rapidly; now it was a double cone; then it changed to a quadruple cone. There were six hundred of the de-activator ships and these were arranged so

four cores of de-activated space, with the fleat of deactivator ships are the space. Thus they were protected on all sides, and quickty, as the Sirkan fleet spread our. In the conter restrict the main mass of the fleet, the lengrage. Dits ships, facts unterstore spoining can time the cones to drive the disabled ships of the Sirkans iron the many of their Dis taxs, impairing in thousands from the many of their Dis taxs, impairing in thousands from the shing living the sides of the descripated cores of space The first was invulnerable and so sudden and complete was the failure of their power in these de-activated reviews, that they did not seem to have time to warm their fellows. Many millions of the shins were lost before the wild charge could be checked; then the sixbefore they were aware that they were in danger. Many, the brave shins within-drawn in by the greater power of the heavy ship, till their power failed. But at last the Sirians had learned the effective range of this new power and tried hard to avoid it. The six-cone formation was immediately broken up, and the six hundred de-activators went out individually, each followed by a eaught in the de-activating cones. The Terrestries ships were marked by a blazing blue light, so that if they too integrated. Only those around there were, and they were then released, as the ray did not stem to have any ininvious effects on man, except to give him strange

ray, as long as the ray was need. The de-activator ships were completely self-protecting; they could stop any number of attackers from any direction, provided the suralyzed ships were disintegrated as dency of the metter to disintegrate in the engines, plus the natural tendency of the space to resume the normal curvature, caused the ray to become ineffective as it was overpowered, and one ship was lost in this way. Too many ships piled up, and only part of them could ficient number of befoling ten man ships. But the miches numbered us ten to one, but they could not fight this new force. They began a running fight to Mars, and the edges of the fleet, and gradually worked in toward the center. But the Siriana could not fight back-they could use only the explosive shells, and few of them reached their goal. They were disintegrated, or missed. Not more than three thousand men were lost in that entire engagement

Dut now the Schricke tried in plan to oppore the Spikers. A large marked of the streams allow doupped so out of the main face, but put rought to smalle it another out of the main face, but put rought to smalle it another out to the stream of the stream of the stream of the capable of higher speeds than the main fleet, set out as capable of higher speeds than the main fleet, set out as the highest sead that could satisfy be maintained, and foreful search flams. Understell shape make all the darked search flams. Understell shape make the highest flaws the stream of the spikes of the the light effect the size fleet of the size fleet of the size fleet. By the time the min feet had survived, it most usual randed, for the has of the mighty fleet of two landford

dust, florting in space.

The advance guard arrived without warning, and as
they had capected, found the Sphere resting on the
ground, protected by a great fleet of the surpedo-ships.
There were nearly a million ships there, with the great
machines rapidly making more. However, all were
removed in a near that could be covered by the cone of

the Assertimation beam. And one in space, the chie core menders decided on a plan. Fifty of the de-activator flect took positions high above the Sirians, and the rest went with the entire fleet of the ten-man ships. These were to approach the cump from the errored. Lying close to the ground, they would be hard to see in the disappearing light. At a fixed moment, all the ships above were to turn on their de-activator rave, which would be plainly visible in the Martian atmosphere. while the ground fleet of fifty de-activators were to use their rays from the side. The ten-room ships were to form a circle around the came at a safe distance from the de-activator rays, for they would crash when their power failed, if they were cought by the de-activates mys. But they wented to capture the sphere in good condition, so they arranged to have the sonce directly above it unaffected by the de-activator field, lest some exit for the torpedo ships, except that at a point a mile or so above the Sphere, a cross-ray made escape impossible.

The rays were turned on. Lansauty the first of assign a million improvise feel widdly on content, down the trends to the first gloving also, in which great stransper of the first gloving also, in which great stransper feel, and the stransper of the first great gre

But the war was over now. The Sirians had been destroyed, or reduced to mere massums pieces. Now the Scientists come to investigate the Sphere. There was in much we wanted to learn from the crestures of the sphere. But it was a strarge steey that the Sirian sphere had to tell.

ABONS ago there lived on a great sharet of Selius A new of intelligent men, shaped now can the smaller has to the greater gravity of their placet. And there men had developed a light elivations, a critical control of the shared states of th

all in their percentage; is were hypermelest, not an outoff their world; by Section more and more and
off their world; by Section more and more
of their world; by Section more and more
off their world; by Section more
off their w

did something no other michine had ever done. Given solve the problem. It was a step, a short step toward a muchine that really thought. Progress thereafter was rapid. The machines built muchines, had been doing it for decades in fact, but now

they did one thing more-they designed them. Now the problem could describe the type of marline needed, and the weeker mathine would design it, and turn out the completed machine! But these machines were rapidly perfecting the beginning that man had made. Within a decade after that first discovery of the principles of mechanical thought the machine was made that could not only solve problems, but could also originate them.

They had developed a brain. It was a great machine, which occurred an entire building, with its mustive

framework holted down to the ground,

Man began a rapid decline, for the machines did all his work. With the construction of a marloue that could originate a problem, man made a mistake. He had created a machine that was more powerful than he. a new muching a muchine that would release the energy of matter! It had developed this because it had been able to see that such energy existed. Man's machines could have solved it long ago, but the problem had never been stated. Now carrie a machine that could state its

machine. A brain machine such as no man's brain could concrive-a machine that could moved For it was powered by the energy of matter, and could move as no other marking had ever proved before-out into space?

Still the machines worked for the Sirian man, and be learned of the new discovery, and began to design a Some of the Sirans realized the danger that was fac-

given a medice that emotion we call devotion, levelty, or gratitude. And they built a great machine on that principle and used material energy to power it. It was a success. It could think original thoughts. It pointed out the danger of the existing machines - they were stronger than men. It was only man's mulifity and ability to costrol all mobile reachines that had made him superior, for a beain without a tool, or body is beloless, And now that was lost. The existing brain-machines should be destroyed, and new ones built, using the prin-

ciples that it was designed on But the mischief was done. The new besin-usehine, designed by a machine, had done it. A machine had been built that was controlled by thoughts, a machine that could be controlled by the machines. Each of these machines was given a small brain, equipped with televisor aight and bearing, and it was powered by material energy. They could run for years without outside care. for the thinking machinery they had was sufficient to keep them olied, and to make them seek repairs when forces, and did as the thought wayes suggested and reported to the control brain exactly what was going

the brain marling had left the planet, and taken with it the new space-flyer and the new telepathically con-To the cutermost planet of the System of Sirius the

great machine fled. For years it remained there waiting, thinking. Then at last it called its worker machines into action. A new machine grew up from the stores of metal that the arose ship had brought with it, at last the metal was used up, and the machine was not completed, so the space-flyer was sarrificed for the completion of the machine. The new machine was started. From its lin. Her spent there occurred a steady smooth stream of motten metal, and the rock on which it rested was eaten

away. The first transmitting metal producer was made. Decades passed, and only a small percentage of man developed. The rest sank deeper and deeper into a life of case. The planets were all explored by the hardy orea, it had discovered the Dis fav. and sunk does into the ground, hollowing a great cave to live and work in, BUT back on that planet, the scientists had developed

muchines that surpassed it in power, and finally one of these picked up a thought nessage from that distant muchine that told its story. It was a thought that had not been consciously radiated, only the marvelous sensitivity of this new machine could have demuch to prevent it, for they had no weapons. But the machine did. It was pressying to drive man from the planets, to rule there in his stead, with a population

The scientists unickly built a great space-flyer, a gigantic machine of over ten unles diameter, a huge sphere. finest usen and women of their ruce, and sailed out into spece, taking an orbit about the sun of Sirius. They were comfortable there in an equitable temperature,

their slop lighted by the sun on one side, and dork on the other, stendily revolving on its axis like a miniature pared, for the brain-machines had taught them how. The air was repurified constantly by machines that resulated the percentage of the gases to the thousandth of one per cert. But the entire thin was cointed black It could not be discovered floature there in space, so tiny in the vastness of a system. It was two weeks after they sailed that the markings

brain attacked. It sailed out of its hiding place with thousands of great thing, arrord with Dis yave and with explosives, with heat rays and attractor bearns. The population of those worlds was wised out in a week, and the rule of the Metal Horde began, The original brain busit other brain machines to direct

its affairs on other elements, and to do the work it did swift forays on a planet with a ficet of cargo ships, that

revolved about the main ship like astellites when they were not being used. In these trins they would brose And now this new besin developed a space-fiver to ships, dumping them into the reservoir of the parent carry these machines, and man could not help knowing, p when it was needed.

for its every thought was recorded, for man's use. Then Then a swift ship was developed. A ship that could All the remaining machines were equally powerful.

All the remaining machines were equally powerful.

could easily conquer the others—but it too would have
to low to its creator. They fought it out. The men had
haven this would be the result.

It was a war such as the govern bed never before so, a fact force was copying, and could to any listed with any other, for the machines could use lie or state other those the country of the control of the control of the country of the table of the country of the country of the country of the is their number. On by one the machine better had past down to felled, the more of that they hadron to limited the latinus of fences by ever as little, yet always control of the country of the country of the premaiding in bilding. At last there creational has no machine being, and its weakword force nocesitated is control to the discussion of the control of the country of the control of the country of co

that they had previously controlled, automatically obeyed

They returned to find a new slow marring them. For the was not a was fines such on they bed consistent hisfore. At once the trop-dow-lip multiples satisfies for the control of the control of the control of the was all over believe they could cut at an important factor. These ships and a new vession. It was a bair of whether the control of the whether the control of the control of the control was replaced on a control of the control of the wave family much they would did down to a doll red were family much they would did down to a doll red from one ability to moder, while, and of the or waste.

toge each the constraint of the property of the constraint of the

And sixteen hundred years it had raced across spore, to be distreyed at last by another race of men. The bettle was over, and the machine awarded its destruction. We rayed it out of existence. It was too great a recease in keep and the second of the seco

Some people will do not believe that those Striam were truly mechines. They can not believe that a machine can have instelligenes, but certainly Waterson's calculating machine has intelligence of a sort. And they ask, what would a machine want to exist for 1 it would have no aim, mechine to perform. Why should it want to live, or exist?

We midst sak what it is human believe word to live.

for, if there is an affect-life, it is certainly not that the se live for. Lun sure no rean wants to the "Net what sim have we? What function must we perform? Why shortful we who to live? Our Pile is a constant straight, the matrimes, at least, had ellminated that. There sooms to me no reasons why a matrime should want to live a certainly it had less reason to pass out of catherine than

They war was destroying-terribly no. But it has brought as compensations. More than fifteen militor burness brough but their lives in that great struggle, either in the blast says during that hands on Verms.

But these fifteen militors have died a painteen doors, and record hands are become of their searche. And the struggle struggle

chains we captured there can Mars. And men will never experiment on the lines of the modello-chean. He has been warned. This brane-naching we captured was destroyed swithout investigation. The meditines we use, the wonderful worder meditine, have been undried to parmit of radio centred.

And Steplien Watersen's discovery of the de-activat-

ing field and only bilgs in low unforcement, but makes war with mortical energy impossible. No, in all, we have tool finite.

Mars bott its cities, its forests, los services (williamion. New cities are boing build on the modern plant, larger, finer, more leastfulf), the foeses are boing replaced; but the records, the relies of a civilization have been lest able force were covered when the sortener, came, there also force were covered when the sortener, came, there

was much that could not be moved. The great paine of Herkis San was destroyed, but it is being rebuilt in the castst spot, in executly the same musors. It is a worth-while project, but there is anneal which cannot be worth-while project, but there is anneal which cannot be for the same of the same musors. It is all the cleven more years before we will have whether we can ever contaminate with the String mon. The speed of light is see low for rapid communication. The speed of light is see low for rapid communication, and as the first signals were seen out in September, 1961.

widther we can over communicate with the Striem men. The speed of light is not low for rapid communication, and as the first agents we seed on in September, 1961, and as the first agents were seed on in September, 1961, and as the foreign street of the seed of the 1979 before we can hope to receive their reply. I often wonder if they will ever get those signal, I can remain but distinctly the recoil of, the great projector as the mirghty surges of light Bissido out nacros the uniview. It is common the seed of the se

# Remote Control

### By Walter Kateley

Anther of "The Fourteenth Earth," "Steam Heet," ste,

Illustrated by WESSO

THE empire of the ants is generally and universally conceded to be the most perfect functioning

arasnization known What maker

it possible for them to carry on their work without any apparent leader-

skip or supervision? Mr. Kateley

ingenious manner—namely, the control of intellects of animals and in-

Baring our assumbtions on bresent-

day findings, we can hardly say that

the conception of "Remote Control"

is impossible. We recommend this

as an exceedingly interesting story.

well worth your careful reading.

MASSIVE tetel bakkt, meh rerendstre a greatly 
relative freight of the rerendstre a greatly 
relative freight 
relative freight 
relative freight 
relative freight 
relative freight 
relative freight 
freight 
relative freig

and the production of the prod

ing the better part of our heavy stuff the centent and the Mildling time, for inconces. Without home we would halfling time, for inconces. Without home we would be a substitute of the contraction of the contraction of the work of the contraction of the contraction of the Driver would the second for the cast in the study reconstruction of These workers for second for each to get around a These workers for second for each to get around a large worker for the contraction of the contraction of the sides, it casts mostly to hap or both beats and barges and see her without house a substitute of the longtime of the contraction of the contraction of the "The unbasilent ser coming mow. I shall have the channe of alvolung you cover the effective,"

At that moment there issued from one of the avenues between the great piles of materials the most mothery gang of dock wallopers that it had ever been my privilege to see. First came some half docon lively little apes, closely

See. First came some half doesn Evely little ages, closely followed by as many huge and fearname visaged African gorillas. These gorillas were flanked by two poss-

erful lumbering elephans. Without a moment's besttacion the associacy sourced against your the newly arrived argo, and with movements of incredible swiftness united and received up the tarpustion that covered the freight. It proved to be a curgo of sacks of counet.

By now the mare powerful.

tot less agils gottlis were on the load. They picked up the lings benike of tarred canvas and tossed them easily to be dock. Then they half down not sings, and began filling them with logs of censents picking up and sooning the hamdred prunish assike as easily so a man world so many bricks. "One of them is as strong as

Kingston as the first sling was filled. "Now watch the big boys do their stoff. Give them your eareful attention."

The two elephants atopied to the edge of the deck, and extending their tranks, passed them through the bogs of the ends of the since, which were beld in readil-

They owing it aloft, dimped the socks on the platform with a heavy third, and rewment the energy offine with a swiftness and precision that was anotomibing. Almost before I had time to resilize what was going on the first load of perhaps a handed seas was unloaded, and another lead was pailed hit; the great whole abiling withly away and giving place to another nearly as large-

ness by a couple of the little monkeys

"I can't believe it," I raid at length. "There just ain't no such thing!"
"Go to the sunt, thou sluggerd. Consider his ways and be wise," quoted Kingston.
At that moment securiting under water a little way out

be wise," quoted Kingstom.

At that moment senecthing under water a little way out.

At that moment senecthing under water a little way out.

From the docks caught my eye. Soon I was able to make out a long procession of whales and giant tharks. Although they were quite submerged, I was able to one ther each was carrying a large consister on his back loaded with stoop. Soon thad but a single block, while other

we loads were made up of smaller pieces.



able to service attere of the large excavating markines; Channel than it would be if it were all brought up at the "You see, we are very fortunately located here for the

securing of building materials. The Corrish rough burt up the Charried, affords an inexhaustible supply of the with a minimum of effort; for its weight when rob-

"Then again, these carriers can place a work in a solu-

I HAD thought that I knew rangeous and my depth, but all this had me floundering beyond my depth. Midway between incredulity and amused curtosity, I managed to ask "Rut....lest where are the bosses for the moreless and

"Oh, we have catabilished offices in London," he ex-

plained. "This is all carried on through a system of "You see these were no huiddings in Dover or any-

where along the English Charged large engage to house

"You must know that this England-to-France tube is "The only people we have here are the material

such stuff as you see here on the wharf. Come I will

So saying, he led me to a little glassed-in office. Here we found two men seated at deaks, but apparently idle, but in reality their attention was fixed on a number of tyeing and computating mathings on the occosite side

of the room.

The machines were being operated at lightning speed, not by listy typists, as one might expect, but by bushy-

hot by fully typints, as one might expect, but by hishytrilled gray equirrels! "Did you ever see a squirrel operating a revolving wheel in a cupe?" saloot Kingston. "Well, that's where

I believe they can move at least twenty times more quickly than a harma being."

I could readily believe that such was the case; for one of the little creatures was mounted on the keyboard of a competencier, operating the keys with all four feet.

He was working with a frenzy of almost imperceptibly quick movements, so that one could scarcely believe there was any intelligent system to his performance. Another was operating a quivering typewriter with

Another was operating a quivering typewriter with equal swiftness.
"Do you mean to tell me that these squirrels know what keys they are stepping on?" I asked.

what keys they are stepping on?" I asked.
"Well, no; they den't exactly know what they are
doing, any more than your hands know what they are
doing shy more than your hands know what they are
doing when they comb your hair. Their little reindict
such as tiley are—are crowded asked by the will of the

"This state of efficiency, however, is acrived at only

the mindes of his squirrel, just as a human operator must educate the mindes of his hunds.

"I don't appose they will ever lenow that they are doing their next in heliding a thousand-foor purple of the property of the state of the same forms of the same forms."

senry twenty sides long. And they may see you, but they will probably never know that you are the discoverer of the great principle that has rendered all this possible." And he shorted me affectionately on the lark

"What I have done is nothing compared with what you are accomplishing," I replied, "And even that little was only an accident," I continued remiliacently.

And indeed such was the case.

What he had in mind had all happened some four
years before.

I had been employed for a number of years—in fact I
still sem—in the Patent Office in Washinston.

atil am—in the Patent Office in Washington.

I had known Kingston more or less infinitely for some time. In fact I had accompanied him only the year before on a most extraordisary expedition—an expedition that had led to some extremely interesting and in-

At that time he was an amateur scientist; employed as a designer of exenvating machinery in a large mamfacturing plant. To say he was an amateur in science is probably doing him something of an injustice; for I

fully before that even then he had a deeper insight into the playical properties of all matter than any other man I have ever been privileged to meet.

He had stready perfected some experimenta pertaining to atomic densities, that were destined to have already

revolutionary effects in the realm of physics.

His was a perconsitiv such as made one instinctively feel that he was in the presence of a green mind; and in addition I had found him to be a most communicable and

I knowledge, or have ever accompilated much of a seiner tille nature, but I have always been leestly interested in the uniseen forces that trut the everyday would. In fact, may becreat it a selectation matter has always for contain the contained of the contained to the containe

and leisure for studying any phenomenon of Nature that for the moment has enlisted my attention. For a few works I am a groblegit, a noslogist, or perhaps an entomologist; browsing among the secrets of nature. The old homomened has a sentll conder with a most fish

HAVE long been something of an amateur scientist

myself; not that I have any great store of scientific

The old increased his a small creek with a good fish pend. The pend and the riffles are terming in sourcer with all manner of interesting aquatic life. Here too is a large gravel pic, replete with fossiblind remains of prahistoric formations. And the old grove and fields abound

with a wealth of insect life.

So with any books of reference, my microscope and a few other pieces of paraphernals, I usually put in my time enjoyably and not altogether unpreditably.

At the time of which I write, I was especially inter-

ested in auts; their anatomy, building habits, social customs and what mot. I had even gone so far as to establish a colony of the little creatures in a glassed-in formunacy in the literary-living room of my town ledgings, where I could have them under duly observation. This

year I was aboling ferward to my mouth at the old homestead with pleasant ambiguation, for I felt sure opportunities for an study would be abundent. Shortly before vacation time, however, I received a leater from Kinston assiste among other thines that he was

ser from Kingston; saying among other things that he was going to have a long vacation while his company were remodelling and installing new machinery in some of the buildings of the plant. I lost no time in inviting him to join met at the old farm, where we could fish and rest, or together chase our farcetic pharmens and I mentioned in my letter that I harmode to give considerable into the

the ants.

He replied peemptly, saying he would take great
Pleasure in belying me eatch my favorite ant; and saking
permission to bring with him a few articles of laboratory
estiment, in order to carry out some experiments which

equipment, in order to carry out some experiments which he had in miral.

A fortnight laser we were sitting on the hank of the old fish perof in the bend of the creek; fishing for young pictored and seaming the water with a pair of afact

rienge binoculars in quest of strange forms of aquatic life. Bohind us was the old gravel pit, where we had speet a part of the morning examining some arcient see shalls that evidently bud been preserved in the sand since pre-glacial times, when this particular area must have

"How about your ants?" asked Kingston. "I hope you or not forgetting them in your seal to entertain me."
"Oh, no," I replied "I shall not forget them; in fact I

"Oh, no," I replied "I shall not forget them; in fact I brought these glasses all the way from Washington for the express purpose of studying the creatures.

"I nhm to so up on the hill lack of the sand oil to

look for a formicary this afternoon. There used to be several of them there in the edge of the little grove. You know they like to brill on high, sendy soil. I plan to arm my forces with a spade, the high-power microscope and these binouthersilkout nounch uson the forpriridar."

"Yes," rejoined my friend very gravely, "Couse said that composts were more often uses by the speak than by the sword."
"But to see the matter of impediments seems of equal importunce. You know Napoleon said, 'six army travels

on its belly. 'Or was it sommen? Well, agravay I beberief reading strategists are agreed that no one ought to
brief me engagement with any of the tribes of Hymenopters without a copiens supply of latent fluid, rich in
cache and heater arisk.'

So saying he took the thermon bottle from the basket
and draits generously. He was a great hattermilli beared.

and drank generously. He was a great battermill; bound. And now, while he was on the farm where all dairy products were plentiful, he was making the most of his opportunities.

portunities.

"A valuable suggestion," I agreed. "No doubt the
boys will be back from the creamery when we po down to
the house for lanch, and we will load the old dentijohn
with a feeth, ood sureby."

AND so that afterneon we nosk our basker, loaded Awith the glasses, a few smaller instruments, a bodie of order oil for the oil-immersion liest, osepther with Kingston's belowed burseaulk bottle, and hepsfully chinded the limit will take insisted the gravelette. Here, a limit opposite, we found a cought of the typopolium manager trees for our insessignment. This must council to keep the cought, it met quitte, out the spot where I had known one lot be fully thermy sears before, when I was a small result of our fermy sears before, when I was a small result of our few years of the limit of the council of the council

boy.

I ass inclined to believe that the robosy had eccupied the zero gustres for at least two decades, and possibly much longer. The mound was active two feet is disaster and perhaps ten or twelve inche lady. It was much tagged, a fault living and straws, publies, e.c., The anti-were quite lurge, with red thema and dust, also said to the contract of the contract

Upon examination we found the workers havy of their mubifarious occupations. They were carrying in fragments of insects and other articles of food, shringing our rubbish and carrying their little aphids—ansi coves—to and from the pasture grounds. The name ants were

afternoon siring.

In fact all was orderly commotion.
While we watched, a group of workers appeared at the odge of the mound, bringing in a twig several inches long. There were more than a deem of them at this job,

We were anxious to see something of the substructure of the formicary, so we decided to start an excavation, by digging a hole some five feet deep, at a distance of several feet from the mound.

This we lengthered in the direction of the sust 'Insidence, in order to reveal a vertical section of the works without no greatly disturbing the inhabitants or lighting their house. As we approached the vicinity of the substructure, carefully shaving the soil away in vertical silone, we care upon the quaters of a colory of missate red latts, whom we st once recognized as reblees. The allege of the property of the careful property of t

per formierry, and that these treaths were too much of the large and to me the large and the l

ants were connected by tiny tunnels with those of the

Some were taking care of the egge and young. Many were engaged in carefully cleaning themselves and one smother; hasily brushing and lidding every part of their bodies. Some were at work occavating new chambers and subjects while the

and galleries; while others carried the hose soil away.

Here again we witnessed perfect teamwork and cooperation.

We found that their workings extended even below the

hottom of our five-foot excavation. Owing to the fact that it was a very warm afternoon, we soon but enthusiasm for digging say deeper, and lay down in the shade to discuss what we had seen. "They are very elever little creatures, aren't they?"

remrised my companion.

"I hardly know whether they have inselligence or not," I replied.
"Some naturalists claim that all that they do is no.

complianced by instinct alone; that every movement is a reaction to some sensory attending; and that their behavior is controlled by sensor things more deeply seased that instelligence. This something more deeply seased that instelligence. This something is inseparable from the fundamental life processes."

I took out The Field Best of Innects, by my favorite

I took out The Field Heek of Innects, by my favorite sutherity, Frank E. Lutze, Ph.D., and read as follows from his discussion of the anatomy of insects:

"The central nervous system is a double longitudinal series, contected one with succher by conta-

at tudinal series, connected one with another by cords.

There is no brain, arrively speading; for the ganglis
in the thorax seem to be about as important as those
g in the head. Nerves run from each ganglion to
near by parts of the heads."

"Now if there is no brain," I argued, "how could there be any intelligence?"

"I can't say saything about the brain part," Kingston

"I can't say snything about the brain pure," Kingston countered, "but you must admit there are evidences of intelligence. You saw how they all lifted at the same time on that long twic? You see how worksmanille they are

in their excavating—each deing his part and doing it correctly. We know that their arrangements of passages and guidries are not hapbasard, for each variety has list own characteristic plan of bone architecture. The different groups are as easily identified by their building artificial as by their physical characteristics.

"It certainly requires intelligence to baild such a complicated system of compartments and tunnels, all seconding to a presenceived plan; especially since they have no blumprints to go by."

secording to a presenceived jabon; especially since they have no binoprints to go by."
"On the contrary," I persisted, "the fact that they always follow a general plan, and that each seems to take the man orders of what his follows are done and server.

to convince me that they are not intelligent.

"In the first place, the worker ant endy lives a few mornthe; possing all her life in a single formicary. We have no reason to believe that she ever smallest the haske of any other enablationers. Then how could she

perience.

as she is fully developed. "Then works, in all the public works, in all the engineering projects carried on, no one has ever been able to discover anything remotely resembling supervision. There is no master builder, planning and coordinating the work. Now remove a group of men were about to erect a

individually saw fit, without report to orders from sayhole? There would returnly be too many done one three, and uchody doing another. There would be too much studding and not enough rafters, or vice ovrea. No one would think of determining where the doors and windows should be, and in fact, with no one to direct and ccordinate the work, it is obvious that however intelligent the individual workmen might be, no appreciable progress could be made. All would be confusion, as it was

"Yet among the arts, all is orderly and efficient." "Surely you would not say that sets have intelligence superior to that of human beings, or that individual hu-

mans could not exercise as much judgment as individual

"Well," said Kingston, "if they have no leader, how do they know who is to go for food, who is to make tunone other things that ants do? You say there are no foremen and no directors; but how do you know that? "Now look at these workers beinging this twig. Here

"Clarlys, you are a little too far back. Come for ward a couple of pures, and catch hold just behind Mary Tane. Now left the front end over that stone. Right up

"And you on the back, let your end down, so it will slide along on the top of the stone

" 'Now Sarph and Elizabeth, come here and give me a lift. Remember, when we come to that wood stalk, you eigle un there in front want to on to the right side of it.

"'Now we will let it rest a moment until Escien's early not out of the way with that old log. That game makes me sick. They doden around that timber like a

of the afternoon to manicure their antonne'!" "Highly annaing," I hughed, "but bardly scientific," "Of course was know." he were on, "we can't hope to hear all this for our great farting ears pre not attuned

to the wave lengths that serve to carry their little voices. But I strongly suggest that if we had sufficiently strong

guage." He lie his vice and were on: "Hearing and sight are very necoliar things; things that as yet we know little

"We have made some progress in these matters in recent years, progress in the way of X-rays, telescopes, microscopes and radio; in fact, we have rone just far arough to reveal how great is the field, and how little of land of the possibilities still beyond. And then it is just

"Sight is such a marvelous, such a complicated thing, that no stretch of the imagination could have conjured un such a faculty, had it not been known in buman ex-"It may be that throughout their errire bodies insects are sensitive to certain vibrations; vibrations associated ""We know that light, sound, heat and other natural

possible that outs and other insects have an additional

seems appet from the free that we nossess. It might be

somewhat skin to bearing, to such or to the sense of

touch. But since we do not have it, we cannot name it,

no one could possibly know anything about sight. There

world be no same for such an experience, and no one would be able to discover it in the animals.

III all caseds were Mirel and had always been blind

neither can my have now concerning of its nature.

nheucenene have characteristic wave lengths. We know that some of these waves are very long, some very shoet, and some are of intermediate length. We have been able to acgregate a little group of them here and there

for purposes of identification, and some of them we can sees on purposes of permitted the brow the breath of those we sense as color, and those which we utilize in radio etc. But there are wide gaps between the known groups; presumably filled with waves the uses of which we have yet to discover. "I veloke illustrate the thought in this way. Suppose

we draw a line through Sen Francisco, Chicago, Cleveland and New York. It so happens that they are exactly in a straight line; and suppose that only those parts of known, and the long stretches between were unixplaced wilderness. This would be a fair representation of our knowledge of vibrotions and wave lengths.

"In all probability there are many longer waves-far lorseer than the longest we know; perhaps bundreds or thousands of times as leng. In fact their limits may be circumscribed only by the inconceivable reaches of space itself. And at the end of the scale beyond the short wave lengths there may be countless gradations of shorter

"There is, of course, a limit to the shortness of a space that the burnan mind cars conceive of, but there is can divide. And the possibilities of different forces at work, employing different wave lengths, are absolutely

"So I say it is quite conceivable that an insect might have a hundred distinct senses, instead of only two or three, or five, as we have. And I believe I am institud in thinking that the years fact that we carnot see an and acting so foreman and directing the work, is no sign that such directing is not being done." "Yes," I admitted, "that is a possible explanation. But

I have a somewhat different theory; although as yet it is only a theory. My conception is that a single art is not on entire individual. In other words, these units that we see are not the entire entity, but only parts of a larger

animal, other parts of which escape our notice

"PERHAPS I can explain by using the following il-lustration. Suppose in the case of a hundred-legged more the common carringle that we were able to see invisible. We would then have two rows of feet and legs going sleng, all nearly side and all kerring in line, all marching at the same speed and at mileton distances apart. If one line abandl turn, the other would term abo. There would appear to be perfect cooperation and tearmork.

"Became we could see no connection between them, we might suppose that each was a complete animal, and that each was sattligent and highly efficient as a marcher;

we might suppose that each was a complete animal, and that each was intelligent and highly efficient as a marcher; and we would insturally wonder how the pasteal movements of the whole group were directed. Or, to put it he another light. Suppose there were a race of beings soconstituted that they could not see our before, but only

our bands. "They would be interested in watching our hands doing all manner of things; writing, using tools, operating
matchines and so co. They would animally suppose that
our hands were poseessed of intelligence; yet upon coamination, no brain could lie found. Then suppose we
had a dozen hands; a hundred; or ower as measure
had a dozen hands; a hundred; or ower as resays as an ani-

antination, no brain could be found. Then suppose we had a dester hands; a hundred; or even as many as an each hill has ants. All these hands might be as work with search and the search of the searc

The control of values of the control of the control

"Then again, our own hands have certain sense orgain, buth as the sense of tooch, rendifiveness to hear of gain, buth as the sense of tooch, tendifiveness to hear could not add offer the render of the could be added fact, all the sense we know and others that we know one. So perhaps these ainst that we are used a green may operating parts of one saintal. As we have brinds, that have fact as notegots has testicies; and so this thire has have fact as notegots has testicies; and so this thire has

"Yes, yes, go on," said Kingston whimsleally. "Yes, are making my world larger every moment. Let me see the rest of your strange heastle."

"Well, I hardly leave If I can do data." I stainined. "You know vision has Its limitations. There may be nerves, or substitutes for nerves, right before your eyes, pensing from cache and to some central location; has you cannot see them. Let us consider a nerve. It is a field better than the contract of the contract of the state of the contract of the contract

"WE do not letow what a zerve message really is, to ser sense it has no tangable form or substance; but our reason dictates that it is a surveyment of some kind of energy, perhaps a series of wibrations of come seet; possibly skin to light, that or etercicity. And the human beain, knowing far more than we know, it the human beain, knowing far more than we know, it could be the survey of the server of the country of the country of the server of the server of possible to the server of the server of the country of the server of the discover—have power to translate them in terms of modon. I think that so far my hypothesis is altogether reasonable, is at not ?" I asked.

"Yes, I can agree to all that," my friend rejoined:

"Well," I continued, "sometimes we send messageotoch as telephon; messages-on a wire; and sometimes we dispense with the wire. We just give the woods a linic impulse by the help of some electrical appartus, and let them find their own confusion. And they on all

and it them one unit own consistent. As they go use right. We cannot see them as they travel on; but when they arrive at their destination, perhaps thousands of miles away, they reveal themselves to human consciousness fully as well as when sent by wire.

"In fact we are already commencing to think of writing as a somewhat supernormated and archaic method of communication.

"It is within the prevince of reason to suppose that while Nature can and does send messages over zerves, as we send them over wire, who can also dispusse with that fittle like of fatty matter as readily as we can dispusse with the copper wire, and send messages as we send them over or through or by some medium that is imperceptible.

"We often hear of some findance that would tend to justify this belief.
"I remember when I was a small boy I heard my uncle

tensensor with I was a small by I beard my under tell how he met with an accident while operating, a welldrilling muchine. Something sharp struck his right hand with such force that It possed through his leaders glove and correlately severed his little inner as the

record foat.

"Realising that his hand was badly injured, he immediately started for the dector's house. (It so happened that the doctor lived close by.)

"He records the records of the hastest above to hear the doctor."

"He removed the remains of his instered glove as he went, and is so doing let the severed portion of his incident, the ground. Paying no attention to this incident, he hurried on to the dector who dreased the

would.

"This happened in the winter; and soon my uncle commenced to experience the feeling that the missing farger was cold. But since there was really no farger there to get cold, be tried to ignore the feeling.

Presently the weather became more severe and the pain increased. At length he decided to find the severed

member, and put it in a warm place. This he was able to do after a semewhat prolonged search, and promptly the distress was releved. "I might relate a number of similar instances, and

"I might relate a number of similar instances, and
maybe you know of some yourself.
"But the point is that our nervous system may not

"Let's take a drink," said Kingston. He turned to the basket for his beetle.

bushet for his beetle.
"What happened here?" he exclaimed. "The coric is out of the thermos, and the little oil bettle is broken.
Everything is in a mess?"

"I hope your hostermilk isn't all wasted," I said, "I suppose I must have hit the basket with the spade when I was digging."
"Oh I was there is not much more," he certified on.

amining the bottle and taking a donk

And then with an abrune change of manner, he ex-HASTENED to take the microscope and bisocu-I HASTENED to take the microscope and butternulk in tended his hand "My dear follow," he said, "I want to congratulate you on having made the greatest discovery in xoology of

I laid the classes aside, meaning to wice them dry after artending to the basket. But we fell into further

discussion, and I forgot them-Half an hour later, perhaps, I had occasion to use the binactions to examine some detail of the formicary. As

the bears come into oppose form I naticed a small blotch of slight cloudiness on one of the glasses. I at once throught of the spift oil and buttermile, and was on the point of interrunting my observations to wine the instrument, when something quite unusual caught my eye.

It was a risy often of brilliant color, which lay just healds a medium-sized worker and. As the sast proved along, the particles of color moved with it.

My first thought was that she was carrying something that reflected the sunlight. Yet this seemed impossible; the thorors. As the worker mounted a little rise, the area ing bine. Then this thread lengthened and shortened as

and immediately I discovered that she also was accompanied by a similar fragment of color By this type my currently was thoroughly aroused. I focused on other sats, and found them all accompanied was very love. In one instance, where a small worker

two suches long. It was like a ray of some peculiar land I now noted that from all the workers within my observation the color line extended in approximately the

same direction; that is, toward the center of the formion my consciousness. He had retiged how intent I was

estorialment on my face. "What is it?" be said. "Are you seeing a chost?"

"I hardly know what it is," I replied in my bewilder-I handed him the classes. "Look at the anta through

the clouded scot in the right lens," I directed. He held the glasses to his eyes. I watched him with For a moment the binoculars were stationary. Then

to place. Existensiv he was transferring his attention

"What do you make of it, Watson," I asked. He did not answer. Very soon he formed the classes held it before him. He noted that several of the inhabi-

tants clong to the twig. At length he lowered the glasses "What can it'he?" I said, hoping that he might have

He stared at me as if unable to comprehend my ques-"Why, my God, man, what do you suppose it is " he asked as if entirely out of patience with my density,

the twentieth century! It is, beyond question, the nerve "But why." I said incredulously, "has no one ever

My companion was examining the apos on the Seas. "I suppose," he recilied, "that no naturalist has ever before had the good fortune to still just the exactly conrect mixture of cedar oil and buttermilk on his lens.

AGAIN we took up the examination. We found a worker everal last from the mound, and had no

Then we throat the norm of the soude into the formieary, and took up a mass of the building material covered

Holding this above the mound and focusing the glasses on a point below it, we beheld innumerable lines

of brilliance extending to the formicary. It resembled a wonderfully disminated sesterfull. "I have no doubt that the queen ant is the center of this marvelous system," I surrounced. "We mucht to

"It much be quite a long job," said my friend, "The oun is getting low, and that bank of clouds will soon obscure it. So maybe we had better wait with norsing."

"I am afraid to get it off." I replied with some linpatience, "because it may be that, when this film on the shapes drive a little more it will lose this mervelous condity. And then we murbt never know the origin of

"Yes, you may be right about that," he admitted; "and in that case we had better go on an far as we can tonight." So I hastily started digging again; shaving the vertical

layers of the formicary, storotte every new and then white Kingston examined the direction of the lines. But very soon the sen's rays commenced to less their

brillsonce; the lines became increasingly hard to detect So we decided to cell it a day and go home. That evening we determined to treat some pages of glass with

cedar oil and buttermilk, to see if by any cheese they would give the same effect as the lens. We cleaned a dozen or more photographic dry-plates, and covered them with a thin film of cedar on and buttermilk mixed in

These we set saide to dry. Then we treated the other lens of the binoculers with a mixture that we boped would be effective.

The next day proved to be miny; but during the day there occurred several short periods of similaric between shoreer. We took advantage of these short periods to

test cere treated placers We soon found that none of the plates gave any resafts. Neither did the newly covered less; but we were

gratified to find that the original clouded one sell regranted to first that the original thought and and spined size magic quality. It was evident that we had not hit upon the proper proportion of oil and bettermilk. We hastily prepared a more attenuated mixture, and replaced the old conting. During a later period of sunshort, we found that this new film gave perceptible results, but was far freen satisfactory. After several trials, with warying proportions, we

After several trials, with varying proportions, we finally arrived at one containing only a trace of batternilk.

By this time the sun was so low that we had no further opportunity to test our work, and so were obliged to postpone further experiment until the follow-

mg oay.

Fortunistly the morning was clear and light. We were at the forming high and early. To our great were at the forming high and early. To our great eighth we found that our arealy rectued lines was ancecured and the second of the control o

time. When a large number were lifted from the formicary sus weases, it gave a very beautiful effect. The beillinks lines were so draw topther that in some cases the eye could not separate them; but they never seemed to cross.

By manipulating several groups in the air at one time,

entranced with the brilliance and bewaty of the spectrals that it was only with the greatest refusance that we at length forced ourselves to go to work. We now continued our excession; one washing the direction of the line, force was to wish the second

We now continued our excination; one watching the direction of the lines from near by ants, while the other removed the soil and deposits of the farmionry.

Upon arriving at a point near the center of the mount, and two or three inches above the surrounding surface.

sol, we came upon a locality when all lines seemed to coverage. But to our surprise there was no queen and peasent. In fact there seemed to be only a depose of an eggs to no exceptionally large cell. Using the low prover lens of the inferencepe, we discovered that there was intured to the inference of the large transposed, apparently composed of siltern filter such as their from which the ant greats solic third concesses.

Switching to the 444 lens, we were shie to trade out that the little container was filled with an almost transpareng liquid.

A LTHOUGH we investigated carefully, we could see nothing further, and upon segregating that they basted like object and moving ut about, we discovered that the convergence of the bright lines stowed with it, following it from place to place.

Apparently there was nothing to do but try the oil in-

meethen feat. Yet we heritartel, because we feared that he did to be used anglet grow in that to the animal matter, in case there easily was a living creature present. After some discussion, we decided to carry on. I because a large fix store, on which we correctly mounted with the contract of the con

table charge of the work.

For some time his effects were unsuccessful. But at length be amounted. "I believe I have it."

A moment later he affirmed emphatically. "Yes, here it, sure enough. And it's allive," he added presently. Needless to say I was all agog, and impactent to have a book! and un commonline on each his diver.

per referrety formed havin. It was patienting ultiply; and as I gased application, it moved perceptibly with an earnoub-sile morison.

Apparently is used assessed of contracts below the surface of the contract of the contr

Immediately there sensored before my vision a very

minute but cuite distinct object. It resembled on iro

draws 80 nourialment from this bath in which it is immersed, after the manner of an amorba."
"Probably the next depoid predignated food substances in the bath. There regarguated foods may be perpared

in the both. There regargeated foods may be prepared and concentrated in the digestive tracts of especially adapted workers. Or it may be that the queen berreft performs this as a royal day."

"I doubt very much if it comes from an egg," went on Kingston. "I think it is more likely in the nature of an

smoths. That is to say, he method of representation is by division, and like an anache, it is lie is eiterral, except in case of destruction from ordered sources. Perhaps after a subdivision of the organism the superfluors have it is estimated away by a yearing queen, shout to institute another oldering in the source mountains and the control with the source of temperature of the control with the source or temperature of the control with the source of the control with the

"He that as it may," I replied, "I think we can safely say that this is the paired Welf, possessed of brain d, power and intelligence; and ther what we call mats are early its multinationus approduces; the queen being in reality only its repreducity or ones,"

one with another by organic tissues. But they are connected and coordinated into one complete entity by this marvelous and beautiful system of nerves; this network of lines of force."

"This is indeed a great discovery," and Kingston impressively. "And I foresee that it is sure to have farreaching results,"

After a mount he went on. "If we could only discover what this narve energy is, and determine the wave length of its whenhore, we could apply the force to all animots. We could revolutionize all industry!"

I will not shell on the account of our further investigations. Softee it to say that we returned our reserves.

preparally a second to the much care and elaboration; for I was convinced that it would create a farror when it came to the motice of the scientific world.

MEANWHILE, as his letters revealed, my colleague was theny in his little house laboratory, trying to

analyse this peculiar nerve force that could travel through space.

One day I received a letter full of jubilation.

One day I received a letter full of jubilation.
"I find," he wrete, "that it is not far, different from light; its wave length is not a great deal shorter than those at the wider end of the sections."

He went on to say that he was trying to produce an apparatus that would generate this force. He also suggested that we give a name to this new found entity, in order to distinguish it from lobes, electricity, or, and

W will later letter advised me that he had succeeded in producing a generator that was something like a cross are possessed of an apparatus that sends over nerve between a dry bettery and an X-ray machine, and that he was now able to produce visible lines of formicstary rays "Now if we can find a way to convey messages to the

I asked for a few days' leave of absence and took a hurried trip to his home, where I found him hard at work

in his laboratory. "I have asked the common for three months off," he exclained, "and they have retalisted by electing me to the

position of third vice-president. As yet, the third vicereraident has no duties resecribed, so I sen at leisure and entirely at your service. He showed me his new apporatus, and proceeded to

"For this work. I have been able to expose one of my nerves," he explained as he unwrapped a finger that I had nettered was bandaged. He displayed an incision in the

flesh that revealed a small silvery white line, easily discernible with the pocket lens. He immersed his finger in a transparent both contained in his apparatus.

"I know this is a very crude method of connecting up," he observed; "but I have no doubt I shell be able to ort tway from it when I have had time to perfect the

"Here, you see, is my subject," whereupon he picketd un a small class beer consuming an ant; at the same time he operated a number of controls of his mechanism. "Now, take the glass and watch for the nerve line," he

I did so; and immediately saw that the line was established, extending from the ant toward the operator. "You see, I am using my own brain for sending," he explained. "You will perceive that my subject is eating

a hit of honey. Such reflex actions can be carried on without intelligent direction. But now watch what sho does. I am poing to direct her to go and get that straw." A small fragment of straw was lying some distance behind the ant. At once the ant ceased eating, and ab-

ruptly turning round, picked up the straw and made off "That will do, Sarah," said Kingston with a chuckle.

The ant dropped the straw and went back to the houry. "What do you think of that?" asked my box. "I think you are a wisard," I replied liastily, "No. I am not " be said: "I am only an arretour scient-

ist. Next time you come I will have a guinea pig perform for you." "Pro willing to believe anything now," I said, "I am fully recorded to one anything hannen. But sell me; why do you think you can apply this to animals also?" "I have reason to believe," he answered, "that a like force actuates the nervous system of all animals. The

only difference between the ants and the others is that the ants have a specialized sending apparatus-broadcasting mechanism if you will-that causes the message to travel on perves where there are nerve fibres, and in

acryc centers and escrebs of an animal in such a way that they will come in stronger than those from the animals' own broin, we can control the actions of the animals

"Suppose a dog is standing with one foot raised off the ground. There will be messages coming from the motive part of the brain to the gazellon and perve center

through which the nerves pass governing that foot; saying in substance. 'Keen that foot un'-But if we can send a stronger, more impressive measare saving 'Put that foot down,' the foot will go down; and Mr. Dog can like it or not."

"I wish you would on a little casy on that buttermilk." I said with mock gravity. "I am really atraid it is af-In strike of my little loke I was conscious-perhate

more strikingly than ever before-of being in the ores-I was convinced that a great realm, which to me was dark and full of the deep accrets of life, was to him an

And now some years had powed. Mr. Kingston's company, of which he was still a vice-president, had undertaken to construct the long-projected tube from England to France. And my old-time friend was in charge of operations, under the title of chief engineer, which brings us back to the afternoon when my story

opened. This extraordinary scientist mused a few moments over my declaration that my part in the early discovery "Yes," he sald, "there was an element of chance in-

velved, to be sure; but almost all discoveries have been discovered roast pir. This is cleverly told by Charles Lanth in his 'Essays of Elin." "But usually the accident doesn't mean anything, unless one has a theory first. You had a theory; and the

accident only served to verify it." "The important part of the accident was that you hancened to be there to see it." I rejoined. "Had it not been so, the most that could have some of it would have been a rather carefully worded report to the entomologi-

"Well," Kingston said, "the good old take is more "It is tru times as large as the old engineers dayed to propose. And in all the departments of the undertaking

avonet where bears eachings is indiscensible, the work has been done by very efficient animals of more than "And when the thing is fireshed, something seems to tell me that we shall see your nicture in all the leading newsmaners and macacines of the world," I said in an-

A. Hyatt Verrill

Author of "Into "Beyond the North Pole," etc.

> hur MOREY

Feathered Detective

THE touraco, a rare bird of Africa, has been a sub-ject of much debate among ornithologists. It is supposed to be the only bird whose feathers yield, on wetting, a natural red pigment. At any rate, Mr. Verrill, ung, a natural red pigment. At any rate, Mr. Verrill, who needs no further introduction to readers of AMAZ-ING STORIES, has some definite theories on this subject, based on careful study and investigation. And under his skilful handling "The Feathered Detective" takes on an individuality that early buts it on an equal feating with the best scientific detection story

If hecome quite obvious, when I looked at the hird, that the murder had been committed before

EN POLLARD owned the Blue Lion Inn at Blue Lion, for he had hought it from old John Blaber, paying for it with good Bank of England opter

Cocking his head to one side, thrombs in the armholes "White Lion," he had observed, speaking to no one

#### THE FEATHERED DETECTIVE

in particular. "White Lions and Black Lions all about. I'll lay a suid to a farthing there's one in the next village." "Tue on 'em," voncheafed old Andy Prout, nodding

his bald head sagely. "An' smither to Clarton, "Ave. an' one over to Rinley, an' the Black Lion to Church Poges," added Sam Ryder. "Aye, the's plenty

Ric Ren spat. "Thicker's ticks on a short," he rumbled. "White Liens and Black Liens and Red Liens all over the Moserin' place. I girl never used a william without 'em, on' I'm a keen up for note at that. But never a Blue Lion nowheres, an' this pub's agoin' to be the Blue Lion arter now. Aye, I'll bet two quid to a harnagery there hen't another Blue Linn in the whole United Kinedom o' Englan', Irelan', Scotlan' an' Walts.

So one o' ve run along an' fetch the sign-painter for to paint you lies him once an' for all. An' mind there's a halotot to the lad as orts here with him first." Still, as I said in the beginning, nobody really knew anything about Big Ben; who he was, whence he came, or even if his name really uses Ben Pellard. He had arrived on the Portsmouth motor-coach one wild night, brodled up in a great senema against the wind and slashing min, earrying a bulging black portmanteau and a big parrot cage wrapped to newspapers to pro-

tect the green tird inside. He had taken up his omerters at Blaher's ion, and though the villagers had been a bit curious, as village folk are they hadn't learned anything about the man during the months he had lived there. He was a from spender, seemed to have plenty of money, and being a genial soul, always ready to have a pint for approve yearly

He was a but man, we'll over six feet and weighing all of fifteen stone (two hundred and ten pounds); barned and thick, with a trick of standing with here widespread and head enciced to one side-"Lake a bloomin" sailor," as Johnny Handy put it. His face was tanned, his ness show and encolors a hit to one side and he were.

feming red, streaked a bit with gray, Old Ahner Spree claimed to be over one hundred weare old and had been to see on a wrener man. He said if is laid here seventy-five years are held have purers Big Ben was a bloody pirate, and he got very reminiscent and spent the whole evening telling species of days when he was at sea and the adventures he'd had. No one doubted that Big Ben had been a sailor, but no one colord him for mood entered as he was and Blad as he year by all still there was that though him that made a

leady besitted to ney into his affairs or atk nectoral And he was a roan of very recolar habits. Every morains be was up before sun-up, and carrying a beavy stick that was near to being a clob, and drossed in Harris tweels, he'd so for a lone walk through the fields and spinneys. Many's the time I've met him as I was driving to Guildford or to Kingston, striding along as though he were walking on a wager, whistling or puffing furiously at his hig black pipe. Or I'd see him sitting on a stile or a rock maybe, watching a flock of rooks or gazing up at a singing lark, or maybe as intent on studying come have on tree or one of the rejectific characters. in his hand. What he did in London nebody longer has we all thought likely 'twas to his benk he went, for "Ruber's Iso" had always had a cood trade, betwist the folks round about and the tourists forever massing back and forth on the Portsmouth Road, or storoung of to see the old houses and the church and what not at Street Hebbarn. And since Bir Ben had ewned the Inn. the business had nicked up most amartardy. He had his beer and ale cold-that pleased the American sourists and London could old a eardle to the Blue Lion for food. Moreover, Bir Ben had fixed up the old place till 'twas like a museum to see, what with heads of foxes and his nike and salmon on panels on the walls, and rusty old sums and swords and what not, so wither with

Receiler as a clock, too, he'd be off to London, start-

ing by the first meter-coach in the morning and getting

back in the evening, and always with a black leather bag

uely olets from Lord knows where, and curies from A great hand he was for collecting this, that and the other hawles old inn't in the way of chairs and saldes and setters and old newtre and china. And there was his parrot in its eage, a fine green bird big as a pigcon, though whatsoever be wanted her for I den't journe, for she never telled, but created and whistled a hit and acreamed fit to deafen one. But the place was corv. and Hig Ben had the nestest bit of a barmaid that eyes could accome next brinds and brooking lass with heir or red as is own, but a right proper girl at that

So, taken altogether, the place did a right rearing trade and the silver came in fact and Bir Bee had every reason to see to Lordon to bank his saviors every week. Still 'tweat owner, as we often remarked, that whenever strangers were about and the tap-room and larparlour were consided. Bly Ben never was about. He'd be esting alone or with a grow or two in the little back room with a mig of mulled ale or maybe arf an' arf. and his his block nine and work often with his cost off and his shirt open abouting his bairy chest with a hit of a about crise heard, that, like his thick, totaled hair, was

Muc tattoo on it. He'd be as charmeny as is, but never did I broom him to sell a second of his most on a tale of the sea, or of the foreign parts he must have been to. New and again some one of us would try a bit to draw him out, mentioning this, that or the other thing quite easually, or maybe speaking of something we'd read in the press about some foreign place or even getting old man Spree to start in on his everlasting stories we'd heard a thousand times and more. But it watn't any use. Die Ben'd and his head or star he rose with fearth. ter till the emps suttled, and swear 'twas morethus or cost belief, but never a yes nor a no nor a when I was so this, that or the other place. I mind one day that Tom Dickey asked him about that parrot of his. Asked what Big Ben kept her for, as she didn't say so much

as "Daren," and then saked where he got her "Them as talky legat many the court across" said Bin Ben, cocking his ead one side and peering at se hind with even half shut. "And she's a wery remarkable Poll

merkable parrot in the world. I might say. Of course ve can't see it," he says, "neither can a lad see anything so remarkable is another lad's sweetheart, though he'll with her mierking his thronh towards the case hancise

In the window. But he never answered Tom's question about where he got hold of the bird, I noticed.  $B^{\rm UT} \ he must have teld the truth about her being so remarkable, for one day a party from America was stopping in at the Blue Loon, and having their ale and bitter and what not, as they waited for intucheon, and$ 

stopping in at the Blue Lon, and having their alse and bitters and what sot, as they wasted for inacheson, and one of them—a nerwast, thin old follow in backers and one of them—a nerwast, thin old follow in backers and lay in the sam. "My goodness praces? The exclutions, for I was in the law having a drink and a dast with Bens, and I hard him." Where on earth did there peeple got had of this Where on earth did there peeple got had of this remarkable preferms and the only our I'vy eyes sor,

in confinement."

One of the luties laughed, "Why, Professor," she said, "it soems just a common green parect to me. What's so remarkable about the creature?"

The old fellow sacreted, "And those worm-eater old cludes yes reveal over this morning looked just like."

The old fellow snorted. "And those worm-eaten old chales you raved over this morning looked just like any ordinary old chairs to me," he told her back, "What was so remarkable about them, I'd like to know?" "Why, why, they were old—they were arriques, and were, were rare," the says.

"Exactly," stage the one she'd called "Professor."
"Well, this bird is not dell and be is not antique, but be's very, very, and then again very, rare, if you want to know. In fact, it is quite the most remarkable belt I have ever seen and well worth my visit to England," "Oh, do let's but the noccious thins, then," save a

ether help, "Tm having my bushlir all finished in just that delightful shade of green and the dear bird will be in perfect farmency."

But I expect Big Ben must have been listening also,

or maybe the waiters or someour field him, for just then Jimmy the porter comes in and takes the bird, cage and all, and starts to go out. But the Professor stops him.

"Will you linguise of the owner of the bird if he will dispose of li, mid flow remail?" he says a Jimmy. But Jimmy comes hark and trifs the Professor that the lady with deep resolved linguish and says the has never yet found anything that money searl buy, and will be a bird of linguish the lady with the part of the third linguish made the best owner things at that, and I cause user to pathing my bitters and probabed at Bose for support. I was that not on shoot bearing the lady offering five brushed gaid for a gree my lady with the lady offering five brushed gaid for a gree my lady with the lady offering five brushed gaid for a gree my lady work had been seen to gain for a given

"But my Good, has add the 'st casy as I'll say juic posts of the I'll process had not age to how the posts of the I'll process had not age to how the overal-maning lig littin, of corres-wordshi'r std, or for five handers of not five tho means oposis, lies a grabbel into, and I' didn't ask has to mind where he manned to share had not been as the same and the manned to share little of the mode of the process of manned to share little in the mode of the little manned and the little is great to be most single farmous—what wath everyone tilling about his having refused five harm with everyone tilling about his having refused five harms. of course they'd have their drivits, and as I told Sam Ryder, and the others agreed, Eig Ben wasn't such a fool as we'd thought to refuse the American lady's offer, because he was multing more out of the bird being as femous than he'd have got from her—that is if the remost deliver, lide on him.

as frameus than he'd have got from her—that is if the parrot didn't die on him.

But of course there case a bit of gossip going about, too. A man who could refuse five himsired quid—ce five thousand, he said—as easy as is, must be rick, and even with all that he was mixing at the Blue Lion it.

even with all that he was midding at the Blue Liont it began to get absort that Big Pens had a sidy bet of gold. Of course it was unbody's business. He had as much right to mercuy as the next, and for all arques lance he might have got it in the gold fields somewhere, or the might have got it in the gold fields somewhere, or proposed that the gold of the somewhere are the somewhere, or proposed that the gold of the somewhere are the somewhere and the somewhere the somewhere the somewhere the somewhere the legis in treedlest how he came to Hollian, how he and for the into with gold effects and that they realize and for the into with gold effects and that they are

More platagons has over since he's come and I handy to order algorithm generate our supervision has them-executed to control and the second of the preferred generate house which has one and called the preferred generate house which has one and called the preferred generate house which has one and called the preferred generate house which has the preferred generate house and the preferred generate has been applied to the preferred and the case to be followed as care to brinkbase, and why didn't he have freak all the case to be followed as care to brinkbase, and why didn't he have freak all the case to be followed as the preferred all the feet generates and have come and the case of the second didn't feet generates and have been all the feet generates and have been all the feet generates and have been all the second didn't feet generates and the second didn't feet gener

at portimentous,

There were some of us laughed at this tilk—I did,

and Sam Ryder and two or three others who knew Big.

Ben pestry well—that is, as well as anyone in the vil
Il lage knew him. But old Analy Prom and doddering old

mas Speen shock their heads and sold they wouldn't be

a bit surprised if Big. Ben had been a pirate or some
thing works.

It was about this time that a stranger came to Brenton's Heath and put up at the Old Beat there. I was over to the Heath the day he came and at first sight I gasped like a fish out of water, for back-to as I saw him when he got off the bus, he was so like Pay Ren I thought 'twas he himself, though I know he was over to the Blue Lion at the same time. Yes, sig, the stranger was the same brild as Rig Renaubroad as an ay tall. and he even had the red bair. But he was a yourseer man. I could see as he turned about, there was no gray in his hair and no beard. But the same sort of pose and tamped like he'd been long at sea or in some hot land, and with a big ugly white scar running across one chark and making his mouth turn up at the right side as if he was ever grinning on one side of his mouth He walked like a sailer, too; legs spread, but didn't cock his head aside lake Big Ben. I don't know as I can ounte make it clear, but somehow I got the idea that while Big Ben was a good-natured, easy-going, good-hearted chap, even if a bit rough in his sease, this fellow at the Old Bear was a mety dispositioned, surly sort, and one

as wouldn't stand for any humbupging or noneense.

Still, he spoke fair enough as he tipped the porter for

carrying in his bag, a black portunatean as like Big and he being a voguger man. I'd have said be and Rice Ben might have been twin brothers. But there was one thing; this man didn't bring a parrot with him. Well, I had it in mind to mention him to Pile Ren. when I got back to Hobbam; thought he'd be interested in knowing there was a stranger so blie him over at the

Old Bear. But what with one thing and another I clean forgot it, and I didn't think of the stranger again till the pext day, when Big Ben being off to London and I dropping in to have a mag of ale and a word with Bess, who should come into the Blue Lion but the stranger from over to the Old Bear. I didn't like the way he letred and winked at Bess, who was a right proper less, as I've said, and not one to be free with but he spoke civilly enough, and ordering a "gin and It" sat himself down on a settle and lit his pine

"Maybe," says he after a bit, "you may know if there's a party hereabouts by the name of Tom Henley shook our heads. "No." I sold him. "Man and how I've lived here or heresbouts all my life, and I know every man, woman and child in this corner of Surrey widow Henley over to West Cheton, and her man was killed in the war and his name was John, not Tom: and the other's Bill Henley, the constable at Esher."

The follow dropped the lid to his left eye and forked at me like I had two hoods or maybe a tail or some'st of the sort. "Hmm," says be. "And maybe the led I'm asking about's not known as such hereshouts. Maybe he's housted false colors, so to say, and's a sailin' under another rame. Maybe if I told you what sort he was you'd know of him. A big man he is, nigh mug to one side like I carries. Maybe for a crown year can recall such a lad as bein' seen bereabouts."

NOW I can't say to turn minute way a war T, and I chap he was describing Big Ben to a T, and I have a still tonerse in her hend. But the stranger had asked for Big Ben under another name, and if Dig Ben wanted to be Ben Polland instead of Tom Henley, it was likely he had reasons and twas no business of mine to be telling this stranger

that the man he was asking for and Big Ben were one and the same. And I expect Boss felt the same, because we felt Big Ben was a decent chap, no matter if he wasn't Big Ben Pollard at that, while this chap, sitting there and asking

us questions, wasn't the kind of a lad we'd coddle to. "So you don't know such a lad, then?" says the stranger, drinking the last of his "gin and It." "Well, that's denn queer," he goes on, half-talking to himself. lad I'm lookin' for over to the Blue Llon bere. Said he ran the place, they did. Now what's the came, one lass, and you, me lad, tryin' to stall me off by savur! there's no such man in these parts? Who's the owner

I'm a quiet lad as a rule, but I've got my temper at times and the tone and the words of this fellow with the crocked mouth didn't suit me "Look you here," says I, a bit hedy, I expect. "Who

of this pub, I'm askin' you?"

you are or what your business is, I don't know and I come prying into other folks' affairs and sitting there asking questions like you were in a bally police court and you the magistrate. If you want information, why the Mazes don't you go to the police and sak them? And if you want to know who the owner of this pub is. come round this evening and ask Big Ben himself. Se put that in your pipe and smoke it, laddy me lad." The fellow granted and stood up. "No offense in-

tended," says he, "But how, may I ask you, did Big Ben, as you call has, buy this tidy bit of a place? With get gold, me lad, with no gold knocking about of England since the war? In some foreign port, of course, And how on you know how he got it? Maybe by book or by crook, maybe by honest work, and maybe by sheddin' a bit of some other lad's blood an' helpin' of himself to what he wanted. Have you thought o' that, me lass and me lad? Have ye thought that maybe Big Ben, us you call him, is a bloody saurclever and wanted by the police? And maybe there's a tidy bit of a reward for him as you two might be dividin' for to start housekeepin' with, and maybe that's why he's Big Ben and not Tom Henley no more. So-

But he goe no further. Bess was a quick-tempered

loss, and she turned as red as her hair, and, picking up an empty stout bottle, she sheed it at the fellow's head She was a good shot, Bess was, and the stranger ducked just in time. And not quite in time at that, for the bottle streck him fair and square in the shoulder. He spat out an oath and started for us, but just then the door opens and in comes Sam Phillins, the postmen, and Billy Hart, and, with a glare and a mumbled curse, the fellow ross out. "Who's the hig tad?" asks Sam, as he and Billy come over to the bar. "He's as like Big Ben as is, savin the scar on his face and lacker the gray in his hair

and the heard to his checks and chin. A stranger, I'm thinkin' !" "Ave," says I, "and no welcome one at that, to my way of thinking. He's stopping over to the Old Bear

Well, we thought no more of the fellow at that, not till evening when Big Ben come home and Billy Hart. who was a sensiting sort, tells Bar Ben as how she very spit of himself was into the Blue Lion this day.

I noticed Big Ben gave a start and his knockles turned white where his bonds rested on the table evice, but he spoke calm and steady enough, "So," he says; "I'd like to see the lad as looks like me. What sort of a chan was be?"

Well, Billy goes on to describe him, and Big Ben turns to Boss. "What was he doin' here?" he asks her.

"Did he say where he was stoppin'?" She told him the lad was solding for a man named Tom Hetley, and said he was stopping at the OM Bear st Brenton's Heath. I was watching Big Ben clear, for in my ears were the stranger's words about murder and a reward, much as I tried to forget them, and I saw

that Big Ben for all his calmness and his easy tones was mightily disturbed by the news. But he was not the one to give himself away, not be. "Henry," says be: "Tom Henley, ch? Never heard of him, I haven't, but then I've not been here over long. Do any of you

lads know of the men?"

unless he was well paid to keep quiet. But what if Bir Ditn't we all have things we'd like to forget and have forgot? I'm no angel myself, I'm not, and anyhow, if Big Ben had done anything much 'twas the business of to buy the Pine Lion with, well, I hadn't thought of that before, 'tis true, and I doubt if the others had, but you see we all knew he was a stranger, and coming up on the Perturgeth reach we'd taken it for granted he'd come over seas-what with his bay coat and his bay and his parrot and all, and his sailorish ways-and so why shealdn't be have had good onld sovereigns? Marke he'd come from America or maybe from some other spot where gold was plenty, and couldn't a man have a being a murderer or a third or a ruscal of some sort? Howsoever, Bleing Big Ben as I did, and knowing him as well as the next, me being so much about and dronping in to the Blue Lion and chatting with Bess and what not, I decided 'twould do no harm to tell Big Ben

a bit more of the other chap's words, so if there was anything to it all Blo Ben'd be on his grand. So I managed to get him one side and told him everything. He listened mightly intent and his face serious and then he "Thanks, Bob, rhankse kindly," he says, clausing me on the back. "Tis not many as would be as free-

spoken as you, but I know 'tis because you think I should know, and I know you don't believe a blinkin' word of it. But I know the lad over to the Old Bear, I do, and I know his game and what he's after, and I can look after myself, I can. So don't worry over me, Bob, one lad, but thanks for what you've told me,"

WELL, sir, that was that, and me not knowing any more than before, except that Big Ben knew the other and his game, and the matter wean't any business of mine after that. But just the same when Nate Rowson and hald upon a hulbing his man muffled on in a cloak hanging about the Blue Lion after one in the morning-though what Nate was doing up at that hour the Lord alone knows (posching, I expect)-I began to feel that there was something afoot and that the stranger from the Old Bear wasn't there for any good and peaceful reasons. In fact I had a mind to tell Big Ben about the fellow ancaking about in the middle of the night, but remembered he'd said be could take care of himself, so I didn't mention it. In fact Bess said I'd best not, and she said, too, that 'twas a kind of furny thing that ever since the other man had

been there. For Ben had kent his parree in his bodroom, instead of in the bar-narlour, "Maybe," I said, "it hasn't anything to do with the fellow, or again perhaps he's a rancal and a thief and Bir Ben thinks be may try to steal the bird. If it's worth five hundred quid, as the American seemed to and I understood each other pretty well, and I told her the whole thing and warned her to loop it to herself. "But I don't believe a rhing about that reward." I said. "If the lad over to the Heath knows anything about Big Ben's past, he's just a rat of a blackmailer. Do was one? And I shouldn't be a bit surprised if he's the one the police want, not Blg Ben."

the said at the inn) "tells me he keeps his pistols all

drel had been asking about me and binning at a past I didn't want deg up and---"

"Then he doer know him and he's really and truly

Tom Henley ?" exclumed Bess. "Golly, I wonder what

leaded and under his pillow now," says Boss, "So I'd do the same," says L "if that scar-faced scoun-

he's done that there's a reward for him " Well, of course I'd made a alin, but by now Bess

"Well, the next morning I was off early for Kingston, and as I drove along past Pairmile, who should I see walking along the road ahead of me but Big Ben and the stranger from the Heath. You could have knocked

is, talking carnest but no high words nor excitoment, and now and then laughing. I was that dumfounded I stopped the car and sat there, just looking at them, But that night, as I was coming back late, it was a different story. I was pretty near to Hobbasa, coming

in by way of Oxsbott, and was passing the bit of spinner by Ockam Dean, when I heard load voices and a cursu or two from behind the heige. Of course I didn't stop- it wasn't any of my affair and it don't pay to interfere in other folice' enamels-but I could have sworn before any judge and jury that the voices, or one of them, was that of Big Ben and the other that of the lad with the sear on his face. And sure enough, when I dropped into the Blue Lion, Bess told me Bu Ben was out, and hadn't been in since he'd gone off with his stick along about dark. Well, I bear around a bit, worried for fear there might have been trouble. for you see I'd never heard Big Ben angry or cursular before, and I knew he had that whacking heavy stick, and when a big quiet man gets mad, he gets mad all

through and goes crazy like and sees red and doesn't stop to thick what he is doing. And I knew if he hit out with that stick, he'd just about bash in the head of the other chan. Not that I'd have minded if he had, only I knew the police would get him if he did and there'd be the devil to pay all around, what with none of us really knowing anything about Big Ben, and the But I needn't have worried. Along about ten Big Ben came in, looking a bit flustered and red in the face and twirling his stick, but otherwise the same as usual. He drank a lot that right, he did, that is for him, who usually was a most moderate drinker, and he smoked steady and wasn't so talkstive as usual. And around trn-thirty sharn he out un and shooed us all out, saytour so how he was tired and was some to bed and elidalt

want to be disturbed and was going to close up for the That was the last any of us ever saw of Riv Ren alive.

First thing next morning Carrie came screaming out of the Blue Lton-she was the first one to be up, burring Big Ben-and yelling that Big Ben was dead. Of course viewpart in this wrings—insertive all who were diversed. I mean, course on the run mitter Consible Billing Gressed, I mean, course on the run mitter Consible Billing Beas was standing in the bar-parlour, wrapped up an seesa sort of a side thing and all a terratific and secret but booking mighty pretty. I thought, and Jinmy the toots was adming and accred bits the others. Well, to Big Ben's room to take lum his tea, and had looked to the door, and to a nower coming had people in, and

there was Big Ben genwied on the floor with has head all twisted to our side and dead as you please. "Memder it is, sir!" wailed Carrie, who was old and activitied supplement. "On, Lood, har morey on me; but I can see his eyes now, sir. All planed not glassy like, all "rolled up and his face as purple as a pump, sir. all "rolled up and his face as purple as a pump, sir. publ. And such a fine, grearous, geod-heatted gendeman he was at statu, sir! And now...."

BUT modedy paid any head to ker, for everyone was pressule garder (consulte likely event me. I was trying to ealin Beas, and tolking her to larry head to her bear to the season of the

the lard was dead, too, Jistig in a meas over by the watdow. I pointed this cut to the consuble—the rest of the crowed inviting gone bode to talk it all over at the large state of the consultation of the consultation of the large state of the consultation of the consultation of the occount gave persistence, and as how it disfut was body was, and as both. Big Ben and the lard hall been looky was, and as both. Big Ben and the lard hall been of the consultation of the consultation of the consultation of the disturbance of the consultation of the consultation of the office of the consultation of the con

Well, six, after a bit the coront-which been called on the teleplone from Kingstone-curse in. He was a sheet min with a red face and a pounch like a politicinaye a men named Chemedoy, a Welstman I think, or who was be a Cornalisma, but a jelly eld boy, buld as an apple, and with keen blue eyes and a funny trick of surpardiance of the corontal state of the corontal state of the "Well, well;" you may hant?" at everything. So as she corone into the Blue Lido the was puffing

and blowing, and the first thing he says is, "Well, well!" Pen my bener! The man's dead. Looks like benericis, 'you my bones, it dees!"

Well, he examined Big Ben carefully and loop matturing to htmell. "Chalcol, strangled," he says. "The

my know, yes. Garonteel with a theag. Well, well's Then he teld Commake Halyo to get the body on the left dead to summon all the said of the Inn and any outsiders that its day spinformation to gather in the bar-partners so he could question them. "One shows you brid, your bonor?" asks the constable, jerking his hand toward the dead parrot. "The halfs been murdered, too, lim thiskin, your severalism."

"Tut, un!" exchanned the corenze. "Blow can a land to murdered, Commishe? Amore see that, see. Murder, as you should know is, in legal parlace, becaused, as you should know is, in legal parlace, becaused, of a Med le knowledge can be commissioned to the control of a Med le knowledge can of a Med le knowledge can pured, it's namely A murdered permet. The my word, that's pead. Do with the thing? Way the state of the control of a Med le knowledge can be compared to the control of the

Consolle Haley was red and flustered. "Did you war first "line Hale Market "line Hale Carlo "line "line Carlo Hale Hale way." Did you kar 'm yo at 'on 'Hi cool heat the bloomir brad 'Heat a parce, my hoge! Hand jar because I'll done me day an' never loid 'and to the copys added: "Es a bloomie! blinder 'Beating," in "If you don't mind, Hiley," ways 1, "Th that charge of the bird. "In not going to set it say from than you, but the consoer said you might said it, and being as I was a close frond of Big Ben bere, and linewish

what store he set by the held, I'dd like to have it as a remembrance of him. I'll take it over to Guildfood no the accolormist there and have it stenfied proper, and put it in a cage so it'll hook as life-like as is." "Tyke hit and "welcome," says he. "Bendy never let me put my heyes hon the hinkin' thing again." We all word into the bar-partoue, where the coroner

act with a note-look and procel, and there, before we could get matted to bught, were the suggested of policy could get matted to bught, were the suggested of policy could be supported by the policy of the policy

this room and where the pistul was. So I stepped over the Constable Hally and whelpered to him about it, and the west back to Hig Bru's room, and protty score he came back errying the pistul and with a quar-lock on the constable of the constable of the constable of a of the constant, and ashing.

"The found this hunder the decreased main's piloty, six," he said. "But has you'll see for yourself, six, his not be said, six."

"Decreased to the constant of the

c loaded, sir."
"Well, well! "Pon my word, what's this?" exclaimed the coconer. "A pistol, ch, and not loaded. Well, well! I must make a note of ther."

Then he bigsan quantizating the tot of us. First, Carriet the most, and a hard temp he had of a with the what with her wringing her hands and expige and president and the hard of the sing carried and having to any one and over agent how the property of the house o

coroner must have seen by now who the murderer was,

what with my story and that of Beas and of Nate and everyone, all tilling of the felsewice centing over and what had earlied like Bea, and have I'd ment them quarreting on the readfact and all.

To HEN 1 socked the sergeoust get up and slip out of the door, very spirit like, and 1 thought to myself he uses going after the stranger. But in that I was wrong, for pretty sion like course bods, and the corosor then being writing and the plate equits, be goes over

wrong, to prestly soon its coulds food, and its content then being writing and the plates quein; he pers over and quada to him and sells him he's been leaving a look at Fig. Herr boars. He planes at poor Constable Hally Sim as it held been also quade strolling apple. Sim as it held been also quade strolling apple. Were you trighteend at the coupse? The sake, arcentel, for did you think a marder was a bally political meeting that you server so much as looked about for cheal? No, you didn't wen find those bloody fingermands on the wisdowledge and does, one the decreasity perturnates.

dow-bedge and door, nor the decreased's portunations and bag six open and rifled. A fine constable you are, to be sure!"
"Well, well! 'Pon my become?' exclaimed the coroner.

De SMET "Well, "Fon my beoost" exclaimed the coroner. "What's this, sergonat? Fingermarks and thoody, you say! And the bags cut open! Important, very maportant. I must make a note of that. But—but, my dens sergent, why should there be thoody fingermarks? The deceased came to link death by strangulation—there.

amiration."
"As to that I can't say, sin," replied the sergeant.
"Maybe the marderer cut himself, or"—a bright idea
came to him—"maybe the parrot nipped has finger, sin.
No death he wrings the buffs nock to stop his squalling,
and perrots have a masty way of nipping, you know, sir.

and perrots have a many way of sipping, you know, sir. At all events he left bloody fungurprint, and Td suggest, sir, we have a man from Scotland Yard down to take a look at them, sir."

"Well, well. "Pun my word, yes, sergeant," agreed the coroner "And no doubt, as you say, the perrot the coroner "And no doubt, as you say, the perrot

the coroner "And no doubt, as you say, the parrot mipped the raseal's finger. Let's have a look at the bird and see if there's blood on its beak?" "Well, it was there; blood, I mean, but not on its beak so much as on its feathers about the neck; red

stains on the green feathers as plain as it.

Of comme that actived it. But why, I shought—and
I whispered as much to Beas—dish't they send and get
the sear-faced fellow before he cheared our?

But I dight't have time to say much, for now the cor-

oner was standing up most solerm and imposing. Bes a judge in court—though more the a publism about to make a speech on a bank holiday—and clearing his direct and staring about it in over his spectacles.

"Himm," says he. "I find that the docusion, Benjimili Pollure, otherwise known as "I'B [Bes], came to his death at the laxeds of a persons or persons nakrows, but his supplicion points strengtly, norsi strongly, towards a sun and positive strength, norsi strongly, towards a

that include another strongly, most strongly, toward as gratforms who is or was reading at the Old Bear Inn at Brenon's Heath, and while it is not without my previous or jurisdiction to do so, I suggest—in fact I advise—that the said gentleman be apprehend and placed under irrest, and that an expert be sourced from Scotland Yard to said the local police in their investigations and the second from the second fro

of the amentation tragedy that has occurred here in the Blue Lion Inn. I ---- "Beggin' your pardon, sir," says the sergeant, interrupting lym. "But the hird-er, the suspected gentle-

the morning, sir, at which time, sir, he was seen to step the abourd a Loaden motor-couch, sir."

"Well, well "Peen my home!" exclaims the coroner, as "This is very serious. But it merely signifies dalay, ref. He will soon be apprechaded. Have you notified Lon-

"This is very serious. But it merely signifies delay. He will soon be apperhended. Have you notified London that he is warned, sergeant?"

The sergeant nodded. "Yes, sir," he says, "tut----"

The sergeant noded, "Yes, str," be says, "tut——"
At this minute there are harrying flootseps cottide
and the door opens and who comes rusting in but the stranger himself! Yes, str; running straight into the bor's jaws, so you might say, and a mighty space thing for a murderer to do, I thought, knowing, as he must have, that the values were at the Blue Lion and that

he'd be the first one to be suspected of doing for Big Ben.
"My God!" he exclaims, before anyone could speak.
"Is it true? Is it true that Tom—Ben—has been seendered? I saw it in the Avons, but I conditable believe it, though often I've warped him. I.—"
The sensant was on his feet holding very stem and

officious and sil. "It is perfectly true," he says, "and you may consider yourself under arrost on the charge of the marrier of one Benjamin Pollud, women of the Blaz Liou Inn," says he. "Constable Haley, take charge of the prisoner."

For a manute the follow with the same stands there, respect downly are your marrier than the property of the prisoner."

strace outmon as you magnt say, gaping about at us as as if not believing his ears. Then be turns redder than ever and his eyes blace and he tokes a step towards the screening his head stock forward and his hig first clenched, and for a mounted I thought he was about to attack him.

"You consumment, additionated ass?" he spirts out.

"You consumment, addle-paned ass?" he spits out.
"Me, we, the murdest?! Why, you blithering idiot, do
you think 1'd murder my own brother?"
Well, at that we all came near fainting with the sur-

d Well, at that we all come near fainting with the surprise. The bender of Big Birl. But see might, have a known it, what with him being so like Born and all. And habit the saids of it a Toue Berdey was here? And habit? be been registered over to the Coll Bear as Leannt Muley? Twas plain as the sacce on pour face row. Birl size at the said of the same that the same and the same and the same and the same and the same Many a brother been falled by a booter, and with my same and the same and the same and the same ing. And this Leannt Colored kinetic at the about Birl Bear, but time led decored into the Birl.

The serpeate most have flought as much, for as soon as held got oner lis surprise as the fathow's words he says: "His brother you may be and then again you may be not be, but, brother or not, you'ce under arrist, star."

For a minute 1 thought the mun would knock the serpeart down, so uply and victors he locked, but he as that the serpeart was in a sarrest and that I was a screen and the serpeart down in a sarrest and that I was a screen and the serpeart down in a sarrest and that I was a screen and the serpeart was in a sarrest and that I was a screen and the serpeart was in a sarrest and that I was a screen and the serpeart was a screen when the serpeart was a screen as the server was a screen as t

"I suppose it's your duty, sergrant," be says. "But it's an ill welcome for me who came here post-baste at word of my brother's death to be mild for killing him, when since yeaterday noon I've been in London to an hour ago." Then, an another tone: "May I see the—iny teether's body" he asks. The surgeans turned to

the corner, a quantizating look on his face, but the corouer modded. "Well, well! "Pon my honor, of course; why not?" mays be; then: "But watch your prisoner earcfully, sergeant. He appears to be a desperais character."

appears to be a desperate character."
Well, sir, there's no earthy use going over all that
Well, sir, there's no earthy use going over all that
took place for a time after that. Big Ben usa buried,
and a fine function ble had, too, with flowers and a selvertrumend coffin and plannes on the hearts and all, not
except on the fullings out to fellow to the green. Yee,
except on the fullings out to fellow to the green. Yee,
to attend the services, though granted by two optimized
at that. And I must aw be folded in said and servicely
at that. "And I must aw be folded in said and servicely
the following that the services is the service of the services."

It like dop from Scatland Yard came form to Ball-The task, as, a time years, choice gover the contraction of the state of the stat

be, if he was found guilty and was harged, I cealche't see
But as I was saying, the lad from Scotland Yard came
down and went back again and what he found or dicht
and I don't show. Nellier do I loose all has went on
at the hesting of the case of the man with the sear,
Harder.

Bos and Carries and I and the others all had to appear, specific beginning to provide the truns criteria capits as well tild the crossor, and a great water of fairs I well tild the crossor, and a great water of fairs I read in the Avies and more I was slid by Consideral Haldey and others and most of all Bly young Roper None. I had the contract of the contract of the Contract of the and the drow weren't blood at all, not were the role and the drow weren't blood at all, not were the role and the drow weren't blood at all, not were the role was not their blood and the blood of the contract of the blood. It mean—as criticine, and which curryone and to be riving the contract of the contract of the contract to be rivin cross or space. And account which the weet the contract of the princer, and a concer whole long weren't best of the princer, and a concer whole

was no Helikia and natural as in and you'd almost expect police admind that the Engermake of the insideoledge weren't these of the piloton, and a done who'd police admind that the Engermake of the conledge weren't these of the piloton, and a done who'd as given the control of the control of the control of the thin, and the control of the contree till and discharged lim. Then he did a quere tillings-and what i founds was a fare been thing for from the control of the bedder, enough the may not be seen as to ask on the control of the bedder, enough the may not the control of the bedder, enough the may not the control of the bedder, enough the may not the control of the bedder of the bedder in the bedder has been and the bedder the bedder the control of the bedder of the b

a fine, smalley story that would do for a the penny theftier it was at their.

The two bruthers had been safelow, Eig Ben having been master and Benned meta, and truthing in foreign parts, mostly on the coast of Africa. Then one day they get stone distinuously from a twive, and thisking makes there was a now field therealoust, they were makes there was a now field therealoust, they were to be conveying and in Banacathaid they find the stones on the conveying and in Banacathaid they find the stones are the story of the story of the story of the story make as milling it the wint to one en my editionals.

in there, and agilher can they talk them out.
So drive they were in a nice pickle, to be sure, the
two brothess without a farthing to their muses, their
ship on the coate validing, and their windler, fall of
stones that they'd agent every penny and all their time
getting, and the law suying they were fusient and
to be account and chipped into goal if they were found
homes somen and respected the law, but that was the
manses somen and respected the law, but that was it
such. So they made up their mind to reparate and
so have a better chance, and to head for the coast, each
on have a better chance, and to head for the coast, each

from another direction.

But Levent delivers, and though the Delivers delivers to be a considerable to be a consid

LIRE as not I or snyone else would have felt the same. But when he met Big Box and had a clust, though heated a bit the words were, he admitted, and and hadn't dared write, and that Lemmel's half of what he had was safe and waiting, why then they got friendly as ever again. And it was diamonds that Big Ben kept in his black har, and to sell the stones, a few at a fewthat he'd been going so frequent to London for. So. whoever'd killed Ben must have known of what he had

sold Lemma, and it wouldn't be hard to find out who murderer sold them in England, and that didn't seem Heely to me. Well, as I said, Lemnel might have got served his bit for getting the diamonds in Africa; he'd brought none in, and though Big Ben could have been jugged for smuggling in the stones, yet being so he was beyond reach of the law, way there wasn't much that could be done, only to order the strong box that His Ben had rented in London to be opened and any stones that were in it configured by the Crown

Well, sir, that was done, but never a diamond could be found. Only a lot of letters and peners and bankbooks and such, and ten thousand pounds in notes. And among the paners Bir Ben's will, which was the most amoring thing of all, when I heard of it. All the crah on hand and personal property of Big Ben was left to his brother, Lemmel, and then it were on to any that

tures, stock-in-trade, good will and interests to Besa and me, provided we were proper married. Well, you could have bowled me and Bess over with a feather, as you might say. All we'd been waiting for was to lay by a tidy bit for a rainy day, and here we were with a fine pub and all. So we were married the next day and that's how I come to own the Blue Lion, and a right nest living it's brought us these many years. But with ever and all, and Lemnel well fixed

for life-and a right decent chan we found him after all our misindefug him, ave, none better-nebody was any nearer to finding who'd done for poor Bur Ben, and only Lermel and Bess and myself much interested in petting at the bottom of the mostery or that Then one day, as we were tidving up and petting the

Blue Lion into shape for business-Bess and I having got back from a honeymoon down to Folkstone-who who'd been so excited over the green narrot the year before. Yes, sir, there he was sgain, goggles and plus-

"Hal" says he, braming all over. "Still here, I see. And here I am, back again." All the time his even were giancing this way and that, as if looking for something "Gracious, yes!" he says. "Here I am again, but I don't see that most remarkable hird. Do you know," he ones on, "I've come all the way from America to this elace

endeavoring to induce its owner to part with it? I'm prepared to pay anything in reason if-"Then I'm afraid you've had your trouble for nothing, sir," I tells him. "The owner's dead, sir, mordered

"Goodness gracious!" he exclaims. "What a dire calamity! What a tragedy! But I bone that the body was preserved and not cast away," he says, messing, I

took it, the body of the green corret and nor Bir Ben's. I nodded. "Yes, sir," I tells him. "I sow to that, sir. Big Ben always took great store by the bird, and I had him properly stuffed, by the taxidermist at Guildford, sir, and a fine job he made of it at that. But why Buy Ben thought so much of it or why you're so auxious about it is more than I can see, for to me it's memory of Ben that I paid for having it stuffed as I did. sir."

"Parrot!" he cried, jumping up and throwing out his hands like he was swittming. "Parrot! Oh my sacred must! Parrot infeed! Why, goodness gracious, the risre, an exceedingly rare bird of African orien. And feathers are actually groen but actually contun red pigment. And this was a unique specimen, a specimen in captivity. However," he sighed, "better half a loaf than no brand. Would you care to-er-dispose of the

"Hmm," says I, as Bess kicks my shins and nods and winks at me. "So it wasn't a parrot after all. And most blody Big Ben knew what he was taking of when be'd say 'twee a remarkable bird, perhaps the most remurkable hird. But as to selking it, well, I don't know as to that, sir. Bess and I set a lot of store by st, seeing as how Ben thought so much of the bird and as how he left us this peb and all. But thep ---"Of course, of course I" he interrupts me. "But con-

sider that you are really doing a great deal for science if you dispose of the specimen to ms. Here in this irm it will become dusty, moth-eaten and will be eventnally thrown in the rubbish, while in a great museum, with your-or-usene upon it, it will be preserved indefimitaly and of benefit to the public. I am-"I'm not a rich man, sir," I told him, without waiting for him to finish, "but I have a good income and somehow I don't like the idea of selling the bord as Bor Ben

wouldn't listen to selling it when he was alive. But if the bord's to go to a museum, then take it and welcome, I say, for nothing could suit Big Ben better than that, I am sure, sir." Well, I never before heard and I never expect action was-gave Bess and me for that stuffed green bird of

Big Ben's. And what with one thing and another, and him asking many a question, I told him the whole story was right interested in it all, and a shorner than I never met, no, not even Roger Keats, what with the things be picked to seize on and ask about and all. "Blood! Of course it was not blood," he declared.

when I told him about the fingerprints. "But it might as well have been. And whoever left those marks was Did nobody ever ask about that?" says he.

"Not that I know of." I tolls him. "It hadn't been fired and Nie Ben hadn't been shot, so it didn't seem to have much to do with the matter."

Professor Judson snorted fit to give one a start, "Fools?" he must yells. "Fools, like the police everywhere. Why, goodness gracious, man alive, that unleaded pisted has excepthing to do with it. Where does this Mr. Lemmel Henley Irve? And where is this lawver-no, barrister I believe they are called over herefriend of yours have his office? Get them both and we'll have a talk and 121 water we find the murderer soon. WELL, it didn't take long to get Lemuel and Roger Keats to the Blue Lian when they heard shout

what Professor Judson had said. And all of us went into the back room-the same as Bir Ben used to use for himself and his groups when many folks were about the Professor from America had to say

In the first place, he pointed out, the unloaded pistol proved the murderer was someone who had access to the inn and Big Ben's morn. "Do you suppose for one trinute," he asks, "that Big Bes, as you call him, would have bothered obeing an emoty gun under his pillow? Of course not! And didn't the maid report that he always kept a loaded gun there? Hence," he continues, "we must assume that he feared robbers or perhaps enemies might attack him or attempt to rob him, and

that on the night in emestion he believed that he had a loaded weapon within reach. In other words, sire, the person who plotted to rob, and if necessary murder him. knew that a leaded gun was always under the pillow, neighborhood aroused by the sound of a shot, he removed the cartridges from the pistol and replaced it emoty and harmless. That much, gentlemen, we may assume is as well established as though proven in a

court of law. But who was the person? "No doube, had the weapon been carefully examined for fingerprines when first found, the identity of the murderer could have been established, for beyond any doubt in my mind it was some employee of the inn or

some one who was stopping here that night-" "There were no guests that night," I told him. "And as for the murderer being one of the staff, that's unthinkable, Professor," I says, a bit hotly. "Tut, tut," he says, smiling at me condescendingly

sort of. "I'm accusing no one, but I am attempting to solve this murder mystery by the means of deduction. Now we have deduced that the murderer extracted the charges from the nistel. Hence we may deduce it was someone who had access to the room and was familiar with the habits of his victim. I---

"I don't agree with you," says Lemnel. "I admit I expect you're right about the reason for the pistol being unloaded, but I don't see any reason why a body shouldn't have come in from outside and have done it. He didn't have to know my brother's habits at that. He might have been looking about and found

the pistol by chance. He-" "True, quite true!" interrupted the professor. "In fact we have excellent evidence of the fact that the murderer did enter or leave by way of the window, but he would hardly have been able to enter unseen during the day, and if he had entered and had remained in the room, the bird would, in all probability, have sourseled and betrayed his presence, for I understand that the creature invariably exhibited dislike of strangers by uttering its customary rancous notes. That, gentlemen, is one reason I unhesitatingly declare that the murderer

Keats. "No doubt he killed it to prevent it from giving

was someone well known to the bird." "You're forgetting the bird was killed," says Roger

fully dressed," he reminded us. "Though," he added, "I do not dony he may have been sleeping. But even so, it is inconceivable that the bird should have been dragged from its cage and strangled without uttering a

pet was killed-"

gested Roger.

Professor Judson smiled, "But you told me he was futable scientific facts and evidence, that the murder was committed before the bird was killed."

The Professor snorted again. "And you are forget-

ting that the bird was killed after the marder was com-

mitted," he said. "Do you imagine that the owner, who sciend the bled so highly as to refuse an offer of five

hundred pounds for it, would not have noticed that his

"Might have been killed while he was asleep," sug-

"Even if such proof is possible and admissible, I connect see that it brings us any nearer to the solution of the mystery," said Rover Kests, "Whether the bird was killed first or whether the murder was committed

first has no direct hearing on the case." "Indeed?" says the professor. "In that you are greatly mistakes, Mr. Keats. It has a very great bearing on the solution, in my opinion. It establishes the fact, almost beyond question, that the murderer was recognited by the bird, and what is more. I am presured to prove in any court that the murderer committed his erime, and finding it impossible to open the bags in search of the diamonds, left the more and returned, and not until then killed the bird for four it might give an

alarm while he was rifting the murdered man's posses-"If you could do that," said Lemust, "then wor're no Professor; you're a wizard. I've seen many a trick of mucic by those fishirs out East, but not one of 'em could turn the trick you say you can do."

"Not a bit of maric about it," declared the professor "But let me ask a question. Was it not raining that night?" STOPPED to think for a moment, "Yes," I said

"It was a clear evening, but it must have rained during the night, for everything was sopping wet next morning. I mind that when I ran after Carrie to the finn here, the street was all puddles," Professor Judson grimsed. "I knew it," he declared, "and if we can determine the time at which rain fell, we can determine the time when the murder was committed. or rather the time when the murderer left the room and

later returned to it. But the most important matter is to he left upon the window-ledge are. I should say, car beer eluc to tiss." "We can't take fingerprints of every blessed person in England," says Lemned, "and what's more, whoever 'twas

is most likely out of England long ago," "Goodness gracious, of course not?" says the professor, "but the chances are ten to one the man who com-

mitted this crime is no novice and has committed others. No doubt Scotland Yard could find his fingersoints in their files. I'm surprised, amazed, that they have not al-

ready done so." "Im not," says Roger Keats. "Soon as it was proved the prints were not made with blood and dich't belong to friend Lemnel here, they didn't have any bearing on the

And so 'twis. Jimmy the boots !

have thought they did; indeed I should. But of course, not realizing what the red marks were, they would not have regarded them as important as I do. But you see, Mr. Keats, even if the red marks were not blood, they amounted to the same thing, for only the man who killed the kird could have left them and only the man who wore dered Mr. Henley could have or would have killed the

bird. In fact, gentlemen, this bird is most remarkable in that the bird proved a most excellent, and I might say, providential witness-an actual detective. I might say, "It's all Greek to me," grunted Lennicl. "You're telling us a lot of things without telling us anything. And

what the hally old bird has to do with it is beyond me." "All in good time, all in good time," smiled the professor. "I dearly love a little mystery, so do let me enjoy it. And I suggest now that we secure a stratebest of the fingerprints and make a visit to Scotland Yard and endeavor to identify them."

Well, that's just what we did, me going along too, and leaving Bess that full of curionity as to what 'twas all about she was fair on needles and pins. So we went up to London and Scotland Yard and

was an American, and we found the chan who'd been down to the Blue Lion and who'd taken the fingerprints told the professor that he'd some over every finnerpolish on file and not one of them was the same as those from Ben's room, even the professor seemed a bit knocked about. But he was a tenscious chap, was the professor, and once he set himself to an idea he stuck to it like all scientific there do, they tell me, and nothing would do

thap was getting out the files, we were looking about there being a lot of bills with pictures of men wanted and fingerprints and such stuck around, and pretty soon turned about and there he was staring at a range on the desk as if he'd found another of the green birds there. "Goodness gracious" he exclaims a second time.

"Whose are these fingerprints?" he asks the young chap, pointing at the paper. The young fellow looked at them casually. "Ch," says he, "those have just come in They're from a bird they booked over in Notting Hill He was with another in a stolen spoter car, but swore he had nothing to do with it, so the police sent over the

prints to see if we had him on record here. But we haven't. I expect they'll turn him loose if they haven't done so already. But why do you ask?" "Because," snaps the professor, "that man is the murderer of the erstwhile owner of the Blue Lion?"

"What!" jerks out the young chap, jumping up like he had sat on a tack. Then he grabs the prints taken from Ben's room, puts them beside the others and somints "By gad, you're right?" says he, seizing the telephone.

"New, who the devil is the fellow? Good Lord, I hope they've still got him." Then, after a few words and orders over the taleshone: "He's safe," he says, hanging the instrument up. "What

do you say if we go have a look at him?" So off we went to Notting Hill and into the gael and down to a cell ing to do with it. He even accounted for his fingerprints, saying as how, being in and out of the recen often, he'd messed some red on his fingers the day afore the murder and had meant to clean up where he left the marks but was that upset by Ben's death and all that he clear forgot it. His barrieter demanded he be set free saying as how there was no evidence against him and only arination who'd imagined himself an amateur Sherlock be didn't.

So when Roger Keats got up, all printed with questions says he, "Will you be good enough to state why you left the room after the murder was committed and before the bird was killed ?"

I could see Jimmy turn pale at that, but he swore he'd "And why was it necessary to destroy the bird, by wringing its neck?" asked Roger Kents

Firmsy twisted a bit, but he swore he knew nothing of the matter. "But," persisted the barrister, "you must have noticed that it had begun to rain while you went for the

knife. You got quite wet, did you not? And who did you hear or think you heard that prevented you from leaving by the door rather than go out a second time in the rais? You must have heard scenething that caused

you to go out by the window after nit." Well, with that Jimmy collapsed. He was a ratty sort anyhow, a sly little cockney, but no backbone to him, and he knew Roger Kents had him cornered. He confessed everything and was tried and convicted,

but he was never hanged. He died in prison, being as to the last he'd never got a stear or as much as a gold toyereign for murdering poor Big Ben

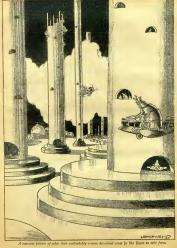
But what puzzled me and Lemuel and Roger Keats and the rest was how the professor knew about limmy leaving the room and it raining, and him waiting at the door and being scared and going out the window and The professor grinned when we asked him.

"Goodness gracious!" he said. "It was very simple indeed. You see, as I have already told you, the bird is a most remarkable one. Not only do its feathers contain green pigment, but that pigment is more or less furntive. In other words, it 'runs' when wet, but instead of 'running' as a green color, it turns to red. The moment

I saw the stuffed hird with the red stains on its feathers with wet hands. I also knew that it must have been his fingers and hands that had left the red stains on the window-ledge and door.

"It was quite obvious also that the murder had been committed orfers the bird had been killed, otherwise there would have been red marks on the murdered man's

strangle him. Why, I asked myself, had the murderer's hands been wet? Why were there roll (Continued on page 82)



# The Conquest of the Earth

By Isaac R. Nathanson

SINCE the deem of man's above on the earth, he has our does not eliminate acceptance in assume the his interfect on any case units in a legislation. But all the propers are supported by the support of the support of

#### Illustrated by MOREY

IN ALL the leng terrorse climb of maskind, from the time who man was the a swape bette to the high table of civilization of the Twentieth Centery, soorer before was often bed ingreat wishoppen algorithm of the world with the property reason in suph shad. Mistry and was, the immuratible infightion of the-twent in security, still cuitsred, often slid by side with immerse power and wealth. But taken as a whole, the world in the middle of the Twentieth Century protected a picture when the suph shades of the twentieth continues the support of the suph shades of the twentieth Century protected a picture shades of the twentieth Century protected a picture shades of the twentieth Century protected a picture shades.

Tody such hall become him can the pois. Write communities that all nurseless ingenuity be materially of the entire outh were called upon to minime to every construction of the entire outh were called upon to minime to every construction. The construction of communities to the construction of communities to the construction of communities of the white of a beautier, the probes after the rew on dot our many construction of the white world. Everything on the fine of the construction of the white world. Everything on the fine of the construction of the white world. Everything on the fine of the construction of the water, in the very all, was only left to mark will. And even with things lapsony all, was only left to mark will. And even with things lapsony all, was only on the construction of the cons

One of the great tragedies of this upward surging ivilization's forces has been the fate of the subject living

things of the earth. Sole by aller with murit presences, the material wealth, stilled crazity and want. That has been the great that, the reproach upon the cheracter of manked. No pity has been shown the waker forms of life. Thoughtfeesby, credity, needlesby, many harmless inferentially earn useful, reconstructive have been externimented inferentially earn useful, extended have been externimented inferentially earn useful, extended have been externimented or the contractive of the co

In the roat of which we work, achoogs here were many signs that the work was included growing better, and was a support of the mighty, was drunk with power and survined with bautry. The comments of life were everywhere fine houses, the public road private, dated the pible. The very kinking of food had absent lest its original purpose and become night unto a corressor, whose in the risks. The many life beautry are commented to the result of the real purpose and become night unto a corressor, whose in the risks. The many life beautry are commented to the risks of the real private waxed foodish with their petty comings and goings—and many standed mightly.

Thus, after a long age-old struggle, a creature called Man set on high; and at his betiest moved and changed and used this planet as he saw fit—truly lord of creation.

THE inauguration of a president of The United States was going on. It was a chilly day on March 4, 1937, the sky was overcast with dell clouds, and a slight potiently stood at every available vantage point bravely enduring the discomfort of the inclonent weather in order to view the inanguration cremony. In spite of the weether the sperit of featival was in the air; the entire there on this auspicious occasion-ray, lent color and was even wafted on the instantaneous wings of the radio to the far corners of the world. No more impressive

riprious sovereignty of a great people, this visible splender of a mighty, prosperous and peaceful nation. The swearing is of the new president had just been completed. The vast crowds which had been viewing the ceremony, listening in by means of numerous amplifiers, were commenting to move about; when suddenly, like the proverbial thunderdan out of a clear sky, an im-

mentely large globe appeared immediately over the Capital excepts. It drapped down on the tissa right in front of the insusuration platform; and in settling rapidly - yet apparently under control - barely missed crushing the life out of hundreds of people who were moving about. There was a loud commotion and mad

Great was the excitement and curiosity aroused all over the city. News of the stronge happening quickly found

And no wonder. It was no little thing which had so onexpectedly landed right in the mulet of all these feetivities at the very steps of the nation's Capital; it was

The first florting impression created on all observers was that a solid globe of metal land come down. But, no. After the first shock of surerise this impression was quickly dispelled by the orderly appearance of the huge body, and its rapid but perfectly controlled landing; what weign the distant whitrage and throblems of mighty engines could be heard. There it stood, shimmering in the sunlishs which by now had burst through the clouds-a thing of heavy to behold. Its weight, however, must have been enormous, for the bottom of the sobere, which

on closer observation was slightly flattened, settled slowly through the payements and surrounding ground Astonishment soon gave way to impatience, and then to anser. The hure globe obstructed everything in its peth. For a long time it gave not the slightest sign of the although gygrybody around waited impatiently for its occurrents to emerge. That it was an acrual vehicle of some sort-of that there could be so doubt. The police on duty forced their way through the densely necked mob-

uphraid them for their temerity and bad judgment in But here was a dilemma indeed; there was no point of entrance and no one appeared from the inside to whom orders mirbt be given, or of whom questions might be

modiste removal out of the question. The police stood Naturally there was much association as to what and where this strange vehicle came from, and to whom it belonged; for here was evidently a new mode of aerial

lation was natural and aroused great admiration and curiosity; but there was also great irritation with the pilots, whoever they were, as to their manner of arrival limb was saved by a miracle. It was assumed, of course, that they came from some foreign country, as it would a vehicle of that kind in this country without it having been widely known and beralded in advance-

It was not lose thereafter, however, when siens of life in the huge sphere commenced to take place. Interest become intense. Some of the circular windows begon to oven inward with a screwing movement; parts of the surface seemed to detach themselves and formed into platforms, and openings appeared disclosing some of the interior. The crowds because uncontrollable, and surged forward expectantly. Still no sign of a human being from an the officials of law and order were discussing

ways and means of forcible entry, a number of strange feet from the ground. These small flying contrivences-for such they were—disk-blue in shape, were about three feet in diameter; and on top of each, goding it, was a

of the contrivance began. The relies finally margared to rope off a space surrounding the globe; and forthwith a number of these strange beings, or whatever they were, settled to the

ground where they were seen to better advantage. A disks, in a seet of hellow formed therein, sat, or stood of the most beautiful appearance imaginable. The body leaned slightly forward, were three bright gray eyes. and smoke which were endowed with a number of delicare tenacula; these members they seemed this to extend or withdraw into their bodies at will. The whole body color. Their average weight was perhaps about one hundeed and fifty nearests. They were various small possibles suspended by silken cords, which were fashioned of firstble metallic-like meterial; from these they extracted a to obtain the identity of the parties in the vehicle, and number of queer articles, some of which were very much like writing pads and pencils. That there creatures, strange in form yet elegant to behold, were no mere saimsted things, but possessed of high intelligence, was

clearly evident. asked. The crowds in ever-increasing numbers milled When night came on the mysterious globe scintillated with myriads of lights, which shope from its numerous night long immense throngs crowded around the Capital grounds seeking to get as close as the police lines per-

HE strange thrilling truth at last dawned on everybody: the scarcely believable truth, that in some miraculous memorr strange living things, not of this

For ages man and his forbears had always dealt with life and the things of this earth, and beyond the academic but ornaments for his editionion. But here for the first time man was brought face to face, as it were, with the outside universe. What at first was thought to be foreign visitors in a new idea of aviation, turned out to be visitors from another world in outer space. The relighty reportunition of interest aroused by such an execubeggars description. It was also the first theill of a mil-

bon Lindberghs multiplied a thousand fold Great screaming headlines appeared in all the news-"Venus" Long columns were written about the various was speculation, particularly about the "Martings," and

satronomical subjects became the leading topic of What was to be done? Officials racked their heads as how best to approach the oneer visitors, nor how to estabexpectedly introduced themselves into our midst were so bewilderingly different, so utterly unlike anything imagined. Somehow it had always been taken for greated-naively so-even in spot tales during with

imaginary life on other planets, that if thinking beings it hard to conceive otherwise. To be sure, after the true to them every comfort and courtesy-belitting this areasing event. But there was no end to take hold of.

It was finally decided on a committee to formally welcome our autoroslung visitors from another world. Promi-T. Jarvis Smith; Speaker of the House, Comressman others.

That they evidently understood our meaning was immediately obvious; for one of them who severed to be the leader waved a wand-like staff and at once a large easel-like stand was brought from within the sphere. This stand was covered with white material; and the leader, taking a pencil from one of his pouches, rapidly viewed from our Solar System. Then, pointing to a spiral nebula in the northern constellations, he made an

enlarged drawing of it, hid his wand on one of the stars of which it was composed, and made it perfectly plain This nebula to which he pointed, was recognized as mical catalogues as N. G. C. 223. It is one of the hun-In far off space. A number of the sparal nebulæ had at

last been resolved in our largest telescopes, and are defiverse, in fact are distinct and entirely separate universes. immeasurably further than the most remote star in our The Green Nebula of Andromeda, from which our

maked eye as a hore star of the fourth magnitude, viewed objects in the heavens. It is the largest known of any smilter in size and physical structure to those of our own universe. The whole system is so remote that me

After further efforts it was learned that the home of our visitors was a small planet approximately the size of get at the time from the celestral voyagers, due to the great difficulty of a mutual medium of understanding tive drawings on both sides that the above information could be gleaned.

Words cannot describe the tremendous sensation this caused throughout the entire world. It crowded everything off the front pages of newspapers altogether. In fact, so strange and so unbeloavable was all this, as to cause a feeling of doubt to persest in many of the best and other countries wrote learned treatises relative to

For one thing, how could snything within any concrivable lifetime succeed in bridging the vast unthenkable distances separating our mite of a world from this outside is the fastest possible speed in the universe. And a sumple calculation sufficed to prove, though fast as light is, traveling with the inconceivable speed of over one hundred and eighty-six thousand miles a second, this enormous speed is but a small's pace, when it comes to interstellar distances. How, then, could this strange eraft ever have bridged a distance which takes light itself the unthinkable time of one million years to span. It seemed

prepasterous And yet, here was stark truth in evidence. Outside of the human species there was no other born of this earth capable of such high powers of thinking and cothese strangely formed beautiful beings could not be doubted by all those who saw them. They seemed unable which remended to their every touch; on the ground

up or down, in any direction-at least no one saw them apart. These vehicles were of the same metallic substance as that of the huge sphere, and they moved about in them with scarcly a sound, with no more effort than we do For seven days our extra-terrestrial sojourners, of

whom there were several bundred, remained where they were. Efforts were made to invite them into our midst, and minister to their comforts, although no one could Copied, White House and other places, they did not seem to need or care for anything. The Andromedana, as we named them, moved and flew about here and there, exnet. Veretable growths in particular seemed to interest growths for long periods. A passing dog or other animal would draw their interest immediately; they would con-

were on it in numbers for study, and the animal would flee in great fright. A scientific committee spent every minute possible in the company of the visitors, seeking to learn what they ding and touching us constantly—a mildly unconstantable experience, because their bodies were slightly charged

with electricity. During all this time very little more was learned resurding the Andromedans. Their mentality and ours seemed to offer no common ground for easy communication. They appeared to have no head, as we know it, no cars, now, nor any other of the animal organs which anatomical functions as well as means of contact with the objective, our understanding was very limited; issofar as it was impossible to examine them more

Then one morning the huge sphere gracefully lifted off the ground slowly like a mountainous bubble, and with an immense roar of machinery, floated off at an increasingly great speed in an casterly direction. Everyone was

incredible speed over the Atlantic, A few hours afterwards word was received from Belgium that the Andromedans had landed there, about ten kilometers from

the most eminent stcentists of Europe that their best to get what information they could, the Andromedans moved on and landed in Germany, near Munster. They stayed there a few days, causing the most tremendous furor, many journeying from England and far points of the continent to view the strange sight with their own eyes. Doubt of the cetra-mundant origin of the strangers could no longer be entertained. Ewrywhere the Andromedans went they were followed by vast swarms of curious humonity, often so overwhelming in their forward surgings, despite the best efforts of police and unlitary guards, that the visitors many times had to rise into the air to

After a two days stay in Belgium, during which time

For over a month the strangers in their flying globe moved on; stopping in Russia, China, India, and touching here and there, humanity eager and all agog. Their craft was continually sighted in various parts of the world, though, at the last, seldom landing. Finally no more was seen or heard of the spect voyagers. They had appeared. It was assumed that they departed from this Earth to continue their interstellar voyaging. And

for mosy were the thrilling visit of the Andromedans remained an interesting subject of discussion in wide circles and in much print. WENTY-FIVE years passed by. Beyond the more TWENTY-FIVE years passed by Decoupletely forgotten the stirring visit of hie from another universe. A few moving pictures of the event, a few stray photographs of all there was left to record. Outside of the knowledge

that intelligent life in a strange form existed in a far-off pinpoint of space, and the immense impetus given the sparty of astronomy, the world was not changed one bit. The even tenor of its existence were on from generation

The world slowly improved, ever growing more officient, more comfortable, more sanitary-and even more just. But the daily things of life, the good and the bad, continued just the same as they always have done for ages back. For however the outer forms of civilization may change, be it remembered that regardless of his ma-

torial improvements, the inner life of man, his basic feelings and emotions, change but little-and these very very slowly. The same old vanities, the same old bigotries, the same old hatreds existed, with their resulting strife and miseries. And yet, there was no doubt about it; the

world as a whole had grown better-much better and happier. Little did the world know or appreciate how well off it was. Had humanity had an inkling of the tragic drams about to be enseted, the inconstanential things of life, so important to many, would have seemed triffing indeed. The soul of man was soon to be tried with fire-his very existence doubtful.

Suddenly, on Tune 5, 1962, with a soddenness that stargers the imagination, the same stronge beautiful beings which had stirred our world of a generation ago, propered once more. This time, however, there arrived about a lundred of their hoge metallic soleres, somewhat larger even than the first one of twenty-five years ago The immense fleet landed in open ground eleven miles

The excitement and astonishment caused by this second appearance of the Andromedans, defics description. In the thurs of which we write, mechanical advancement had progressed at such an accelerating rate that almost vast throngs from great distances motored and flaw to the spot-oit takes very little to attract the multitude. strange sight. Once again the whole world was thrilled to

That the Andromedans this time had come for some sort of important business was soon evident. For shortly after landing, their spherical weastly formed into a large circle, and began disperging vast quantities of machinery drofs of these exotic beings, it can readily be seen that

A scene of tremendous activity communoed, the like of which was never seen by human eye. With powerful machinery of immense size, the Andromedana became excavating, leveling, and building over a large area many source miles in extent. A concrete picture of what their steadily formed to rear their wast holks from their deep unterly different. The circle and oval, the ellipse and the spiral, were the predominating motifs. All their buildings

apart, the futervening spaces serving as atructs. Here the sky. They constructed their materials right on the necessary to their operations was a mystery. At night Gradually more and more was learned of the nature

generation ago did not permit. Their power of sight, for nstance, was considerably different from the human. Their eyes, of which they possessed there, were very mobile, being located at the tip of three stubs; and unlike ours they had the poseer of magnification, which they excet as will, when focusing on minute or distant objects lack-enother sort of an eye, at the base of the triangly formed by the others, by means of which they could register rays of the nitra-violet, thereby embling the traces of the sense of smell, although our visitors reacted back to them, as they conversed among themselves by ultrapowerful eyes enabled these to carry on even in the

dark and at great distances. Natural foods, such as we certhly creatures enjoy, they parrock by means of an organ in the center part of the body. Thry did not seem to med the intermediation of

-or rather lack of sex. We Jearned the amazing fact that these beings were extremely long of life, their awayage age running into several thousand years, counted in duration only by our California Sequeiss. Death, such as afflicts us mortals, is a thing undreaded with these fee their deaths are births, and their births are deaths, the offspring retaining even the memories of their immelucking in interest from our viewpoint, nevertheless has two highly attractive but often antagonistic camps. At a point of their life comparable to our very rice maturky, the mutual attraction of two Andromedans resuits in the beginning of a growth in each, which continges until the parent, usually at an extreme age, is finally discarded, thus giving birth to two individuals, never more nor less. Or it would be more correct to say, that two partly grown individuals take the place of the parents. This form of birth is always a joyful event and is the occasion for much celebration. The offsoring

at birth are already part grown, or rather, it would be more correct to state, that for a long time they are entity, until at a certain point the parent dies, and the though not quite agreeable to our senses, has its advantages-the parent always known the wheresbouts of its children, and the children, after separation, may not have to weary about possible burdensoms pervets The Andromedans, although beautifully built and highly sensitive, are incapable of rapid self-locomotion, They have three appendages by means of which they can for rapid progress either through long disuse or by nature; their movement was very slow and receive Practically every muste of their life, except durant periods of rest which were very short, they spent in their

means of these they became very swift and active indeed Our scientists, who were free to study the strangers and their ways without may bindrance whatsoever, found a former place, these were small concaved disks in which the Andromedans went about and did their 'work Long ago they discovered the related nature of grave tation and electricity as being basically one and the same thing; and so have been able to device a way of involating these disks, so as to free themselves at will from the attraction of gravity. The means by which this won done was, however, so extremely complicated as to defa the thorough understanding of our scientists; although hoped, will some day bear fruit,

The Andressedam were entirely peaceable beings, any sort of combativeness. Thry went about all benefits engaged in their various pursuits. Their greatest unve-

their social organization, as well as other interesting features, would take too long and is beyond the scope of this short narrative; the interested student, however, may obtain this at the proper sources.

BUT though the Andromedans went shead stendily about their business of building, erecting and altering-the reasons for much of which we could but guess-separently offering no harm; nevertheless they were excitating and otherwise changing enormous tracts of level on which were many prosperous farms, small settlements and public highways. All this was done without recyious notice or permission. They simply concentrated at any chosen spot a vant amount of equipment, mers and small villagers whose property rights were thus

As the activities of the Andromedans continued, they became more and more objectionable, to say the loast. less property owners became ever loader. Something action-most likely they had no understanding nor idea rights-an effort was made to communicate with the Andremedan leaders in order to explain to them the discitteers. Also at the same time the authorities wanted

this time were beginning to assume immease proportions. constant touch, to explain the serious situation to the newcomers, so that their stay would be as pleasant and them with the etmost cordinlity and good will. No one at the time thought that their second visit to our earth. although on a much larger and more active scale, was

anything more than transitory. This approach was made. But although every effort

was made, either they would not, or could not, be made to understand our ingrained repugnance to the violation of property rights. Speech, as we know it, they had none. But they learned to write our language, and we in from the Andromedams concerning their home world

existence ran something like this: Their counic system, located in one of the spirals of the Great Nebula of Andromeda, on the far side, unlike our Solar System, was a bisary, so common in siderial space. It comisted of a sun larger than ours, and around it revolved a small dark compenion about the size of our earth which was their home. The physical

a resembled in its make-up of land, water and meteocclosical conditions, except that their planet contained only about bell of the water Veretation and other forms of life they did not know

of; or if they ever did exist, they had peartically no record of it. For ages and ages as far as their knowledge went, they were the only form of life on them world, there being no other kind reexistent as in our these were so fragmentary in their nature, that although they knew that some time in the remote past there had

didn' know the origin or nature, the Andromedans did Their numbers run into six trillions. So crowded had living conditions become for them on their planet, which we named in our records as Androm, that their habitations had made of it one vast continuous city. About seventy-five thousand years ago living conditions and requirements had become so intense, that practically the first limit had at last been reached-

been other life on their planet, it was so long ago that

the very existence of it had been forgotten. Due to some catacivam or other causes of which they themselves

not have a complete record of their descent.

in spite of all their science and all their art. They had and for scores of thousands of years their stace travelers had covered abyomal distances throughout their own universe and many others, seeking another world fit to live on. And always and as far as they went, and whereever they went, they found space void and lifeless; the infinite number of bodies it contained uninhabited and

For strange to say, although most of us on this earth had always taken it for granted otherwise, our Andromedua visitors informed us that life-env kind of life-is a rare phenomenon undeed throughout the length and breadth of infinite space; that so far as they had vast reaches of space-there was no other life extant, excepting on their planet Androm and our planet Earth. although containing uncountable numbers of stars and other forms of matter-these were all either too hot or too rold too small or too large, their physical contest and form in some way entirely unsusted to support the vital processes of life. Even when they did find a body in itself suitable, it was either too close to its luminary or too far, its axial inclinations too oblique or its orbital noth too extreme, or the warmth giving rays were of a

kind destructive to life altogether. In short, the conditions which give birth to life and permit the vital procorner necessary for its continuance, are so infinitely rare, so complicated, of such a rare combination of comes—the severages fine balance so easily unset; that life, though plentiful on the two planets, was the most rare thing in the whole Universe.

The Andromedans had reached a marvelously advanced clane in their arts, their sciences and engineering skill; and were able to bring about enormous transforming works, greatly controlling the weather and other conditions. But they needed the kind of atmos-

place we do, also water, and plenty of it; neither could than theire mainly for mosons of gravity, on a world much larger or smaller than our Earth. And so, when they first sighted our system twenty-

five years ago, they were impressed with the beauty and changing colors of our-Earth. They decided on a closer inspection before moving on, slackering their tremendons speed accordingly. While still far away, there was that about the appearance of our planet which interested them store than any other they had seen before. Their nowerful telescopes revealed thrilling signs of what could only be explained by the possible existence of life. When they landed, and saw that terrestrial conditions

were tolerable fee these, and that above all there was life, they were as stimped as we were to see them. At last, here was a world to colonize, to take the suryears to return to Androm; and the news which they brought was received with great joy and relief. Their world had neartically given up finding another livable globe, and certainly never expected to find life anywhere on any other than their own. Immediately a great expedition was fitted out and sent speeding its way toward the Milky Way. It took consummate skell to find again our speck of a solar system -our sun being only one of the billions the galaxy con-

plus repulation of their world! It took them twelve

tains. Also the disconcerting news was imported that they were but the advance guard; that many other expeditions were being fitted out as rapidly as nessible to follow on their heels; for the biologic pressure of their growing population, although very slowly increasing,

Our obvoicious and autropromers were greatly reasiled however, by what means they were able to bridge such must distances in such a short time so tearlest warry. But as near as they could eather-ofer the understanding of it required the knowledge of complicated mathematical operations and physical laws which it would take years to understand, much less to fully master-the Andronelete limit. This acceleration they could increase at a

grometrical ratio, till they went with the speed of light. laws of time, street, matter and velocity ceased to operate. They moved as if in another dimension, enabling tances as an airplane covers earthly distances. And, of course, they were able to decelerate by the same means. In their long voyaging they sometimes passed entirely through a gaseous nebula, hardly knowing it, for many of these pascous pobular are millions of times more rarefied than any artificial vacuum. They were ally systed accidental collision with bodies of harmful size. Thus we see that the marvel of mind has always

been its ability to electrowest as it were or rather to take advantage of, the unknown laws of nature. I N the meantime, the Andromedans and their weeks became increasingly interesting, and excited everyone's imagination. They were the leading news feature. The entire world was kept informed, and they who could not take in the sights on the spot saw and heard with unabated interest the doings of the Andromedans over But what was at first a highly interesting event-for

the deings of these other world beings were extremely interesting and on a truly majestic scale-became in time somewhat disconcerting; for it took on all the sarmarks of a permanent settlement. And as their activities grew and spread, ever including more and more area, the authorities began to be alarmed. It was also feared that some of the frate farmers, whose homes and forces were destroyed, would take matters into their own hands and resort to firearms-thereby creating an unpleasant complication. For what cared they about the remance

of other world visitors, when their houses were at stake, The local authorities, source knowing what to do in become a matter of more than local importance, appealed to Governor Whilen. However, as the State authorities neither would countenance nor wished the use of

if boot within bounds the tremendous industry of the strange settlers would add enough to the general wealth to more than make up for the few square miles they occupied. The upshot of the whole matter was that the Ohio Legislature, approved by the Governor, voted from the State Tressury indemnification amounts covering the losses suffered by the dispossessed landowners. Also the Andremedans were enloyed from extending their operations beyond certain specified boundaries without conforming to our established laws.

It was seen found that this did not help matters for long. And to add to the growing seriousness of the situation, some months after the first arrival, smeller expedition as large as the first landed alongside the first From then on a constant stream of new arrivals came. landing Andromedans by the scores of thousands, who By the time a year had some by the situation had

grown serious to the last degree. Their ever-spreading activities reached and threatened the environs of Cincinrati, and had swallowed up all the villages around. They even bridged the Ohio, and commenced their operations in Kennocky. The State authorities, who had exhausted all their efforts to keep the peace, were at their wits' end. The situation was all the hunder to handle in so far as these bountful intelligent beings were very gestle and seemed totally harmless. Except for their neurretion of property and land, not a human hair had been toucked. They just didn't sorm to understand our laws. So far there had been a constant friendly intercourse. Our experts and men of learning gleaned many valuable processes of a practical nature. The Andromedans were marvelous technicians and artists: and they showed us a few tricks, particularly in the realms of metallurgy, chemistry and mechanics, that made our experts feel like rank povices. Just the same we watched their activities with growing concern.

But when a great important ofty like Cincinnati arpeared to be in the nath of certain destruction, it become a different matter altogether. Things had gone entirely too far. The bewildering situation had taken on such enormous proportions that it was too his to be easily handled. It was him an insidious growth in the body, to which growth one does not attach full significance until it is too late. Everyone suddenly woke up to the real danger. And the governors of Ohio and Kentucky, not carring to assume responsibility for a state of affairs which they felt had grown beyond their control, it was

decided to throw the whole matter into the hands of the Federal authorities Realizing that here was a condition of affairs fearable with possible dynamite, the consequences of which no

one eculd foresee, the Federal authorities decided to take active steps toward a solution of the problem. The Andromedans were informed in a courteens but from manner that their spreading activities were highly objectionable. They could rettern where they were, as they were already settled, by contributing in kind to the second weifere. But off further spreading must crase

altogether and immediately, By this time intercommunication had so progressed that the new acttlers fully understood our demands. They made it plain to us, however, that they wished no harm as to our life and luman activities; but inextrable necessits ever enlerging population. And as furthermore great numbers of their kin were on the way, and would contimes to come in a vast migration to our planet, that we humans had best get accustomed to the idea right now and live our own life sa best we may, without botherine or interfering with them, even though their usurpation of land conflicted with our rights

Of course, all this was utterly proposterous. It was tantamount to conquest of part of our fair land, and could not be suffered in any degree It was the constant arrival of these strange beings from another universe which was the most alarming

thing about the whole business. The quiet persistent pressure of their perceial infiltration, the rapid spread of their enormous engineering and building works, proof situation. They were changing entirely the landscape wherein their activities centered. Had they been some foreign humans who had thus settled uninvited amongst us, action would have taken place sure and swift long before this. But it was the very urrearniness of the thing, the unbelievable, astounding happening going on right under our very moses, as it were, coupled with our

had disarmed us at first and allayed any apprehension. The remarkable state of affairs was brought home directly to the Europeans also, by the landing of another have contingent of Andromedana on the weatern border of Germany, who being aware of our perplexing problets, looked not with kindly eye upon their uninvited sucets. Then shortly thereafter in quick succession, a colony settled in Spain, another in England, and still another in southern Russia.

Our first enthusiastic reception and courtesles' extended the colestial beings, now gave way to genuine slam. The situation had become impossible The President called an extraordinary session of Coneress to meet the prowing danger. Parifiels were

howled down, and force was decided upon, distasteful The War Department was authorized to take whatever steps were necessary. Large numbers of militia and Federal troops were called out, trader the command of Major General Bruce T. Wallace, and began concentrate

ing about the affected district. Artillery was massed in close formation, forming a ring of steel about the Andimmedians; while large fleets of observation and bombs Be it remembered that all this time the chieves of our concern were going penombly about their business, pay-

ing not the slightest attention to our military mancuyers. They did not soon aware of the fact that puritive action threatened them. Our newspaper men, and for that liberty to the wast city which the Andromedans were building. They were very friendly and took cours sercontion to avoid bodily injury to man or beast. Beyond less. It seemed a shame to fire upon these apparently defenseless, industrious, intelligent beings who were busily engaged in digging consis, building immense tions of a wonderful civilization. However there was

An ultimatum was delivered the Andremedans on July 16th, 1963. It stated that where they had already subject to laws of the fand; but no new immercants of their kind would be allowed to remain; that further encreechment on new territory was strictly forbidden; that they were to pay, in a manner to be decided on later, the full amount of the value of the land they occupied and gam-are would be resorted to if they disobeyed. They were given twenty-four hours to comply

ultimature, which expired ten A. M. the following day. Interest was everywhere at fever heat. The Germani and Russians, who by now each had a very large colony of their own to deal with, were awaiting the outcome on this side of the Atlantic to follow our precedent. No one really knew what the conscopences would be although no one doubted the ability of the military to control the situation. The Andromedista were not warliby War was a thing mknown in their world. Our mittery intelligence reported they sow not the shelitest sire of means of offence or defense, although no doubt their great knowledge and vast powers of industry were fully expable of a great deal if given time. They could be easily destroyed long before they knew what it was all

All civilians were ordered out of the district, and everything was held in readiness for the blow-off Evidently the Andromodans either would not or could not understand our wartike intentions, or had decided to pay no attention to the ultimatum. So promptly at tru forces let go. A terrific, overwhelming artiflery fire was isid over the entire area. Overhead perial forces dropped huge quantities of the most destructive explinives. chormous volume, in an effort to wine out the errire area in the shortest possible time. The din could be heard for miles and miles. It seemed nothing could remain alive, At

the end of three hours of continuous bomberdment, orders were issued to cease; and reconnectering planes flow all over the affected area to see the result. They reported wast damage had been done. Great numbers of the Andromesians were caught in the concentrated fire and killed. But with a shock of amurethere were many hundreds had not been injured in the slightest; and the surviving Andromedam had no doubt taken refuge in them. These spherical space fivers had evidently been constructed of a material to withstand any accidental shocks encountered in their exemic flights:

and our mightiest gun fire and explosives had made as anoth impression on their huge craft as peas would assinst a concrete building. Another hombardment was ordered, this time concontrated on the plobes, their space there. Suddenly these were seen to rise into the air; and in the midst of the deafening noise, there shot forth from all their plobes blinding, lightning-like flashes, accompanied by terrific thunderclass-strikung the massed artiflery and military forces. These lightning flashes came in a tremendously fast, flickering succession, paralyzing in their scaring

heat, and striking with all the force of a million thunderboles, instantly enveloped the entire countryade with continuous white hot, explosive sheets of flame, shatterms and destroying everything, and blowing up all entire earth heaved and shook, as if in the grip of a The devastation caused by these electric discharges, for such they appeared to be, is beyond description Men and guns lay around in indescribable confusion. Many who were not dead seemed pandynol, In less than fifteen minutes our entire artiflery was completely si-

violent earthquake.

the ammunition and explosives eathered about. The

lenced, and of the large fleet of powerful bembers nearly all were brought down. The remaining soldiery were was taught us in destructiveness, the Eke and the overwhelming power of which was never before experienced on this planet. Horror, consternation and suger filled After the terrible destruction of our military forces,

with their sickering loss of life, the Andromedans emerged from their fortress globes, and commenced re-construction of their shuttered area. They made no effort at reprisal nor pursuit; but the way they stationed

THE United States War Department began to make war preparations on a gigancie scale. The General Staff nict and decided on another attack. This time the enemy was to be taken by sometise. All available troops were called out and stationed in a far-fluor circle far enough removed from the affected area to avoid overwhelming loss of life. After all necessary preparations were made the attack in force was ordered. The Ninth Army, stationed on the west and north, and the entire First Mechanized Army on the past, converged suddenly Ohio River, well concealed, were ranged battery upon battery, to intercent the enemy if they sought safety in fight across the river. The enemy was to be given no premuratory approprient of the impending attack, but were to be taken on all flanks completely by surprise and destroyed before they could get into action.

looked as if nothing rould stop them. The orders were to kill or eapture every living Andromedan. Then, once again, those terrible, flickering flashes commenced enveloping and antibiliting everything. Not one armored car or plane succeeded in getting anywhere near enough blown up by their own ammunition. Very few escaped when the retrest sounded

On the other side of the Atlantic, the Germans, olded by the Belvians, on whose border the Andromedius settled, had followed the tactics of the United States forces; and their attacking forces, too, were completely destroyed. The same fate build the Russians. Following hard upon this, news reached the civilized world that another colony of these unwelcome immigrants had landed in Chies, near Hankow; and still others in Asia Minor, India, Egypt and Morocco. And from all these centers, reinforced by the constant food of newcomers, the invadors were rapidly spreading out in all direc-

There was now no doubt about it. This faroff world in the remote reaches of space-the very existence

their billions, to colonize the Earth; and if need be take foreible possession of whatever portions they wished. The more timid amone munkind compelled that these newcomers should be left in peace, so long as they were not destructive of life. But the general orinion the world over agreed that the situation was impossible; that unless immunity wished to be shoved off the earth. as it were, the invaders must be destroyed, cost what it A GREAT international council took place in London, March 18, 1964. Things had come to such a state that everyone realized the mortal danger

which threatened the entire world. Every effort to resist so far had been smothered in destruction and death. No single nation could cope with the power of the Andromedans. All the civil, political and military leaders sneary. For once all nations and neonles were verted The instinct of preservation made the whole world kin. At a solemn concluve in plenary session it was unaximously agreed that all nations, big and little should each contribute according to their power and ability, in deiense of the common cause. An International Council of War Ministers was formed. The supreme command of all the forces was placed in the hands of a triumwirate, Charles H. Biggers, the American industrialist; and Dr Friedrich Hans Golter, Germany's great scientist. The reason an industrialist and a scientist were placed in command together with a soldier was became it had long been recognized that in a modern war, especially sources were the deciding factors, military strategy alone

would not win. This was going to be no mere marching back and forth, or stakmated trench warfare, such as previous wars had been between members of the same human family. Naval power did not even enter into consideration. They could not be starwed out. Here was needed science, industry-the artfully conceived and -to the end that these other-world enemies of mankind should be destroyed otterly; or at least be forced to depart. Hussen civilization murshalled its forces and girded its lains for the titanic struggle. But every effort proved futile and without avail.

There seemed to be no effective way to grapple with the Andromedian. Every new, every supreme effort was overwhelmed again and again. And the fast-enmeding mountainous mushrooms-mushrooms with deep roots medan cities kept growing and spreading, ever usurping and extending-east and west, north and south-in an ever widening belt clear around the world. They altered the courses of mighty rivers; they changed the very topography of the earth to sent the needs of their paresufar civilization. Like a beautiful, yet malignant growth, they spread and covered the fair face of our good old

Extensive mine fields of the most destructive kind were planted in belts miles wide completely around their settlements. To so avail. For as soon as the Andromedone burned of their nature, the mines were cuickly blown up from a clutance by their terrible luthring sided the enemy in their operations. Deadly arried bombs directed from a distance by radio were tried. But these proved more of a bouncing than anything else; for just as soon as the Andromedans, by means of their fleets of their invincible globes and made chaos of entire by the English, was resorted to and a surprise attack simultaneously in many places did cause large loss of life among the enemy; but after that our forces were unable to get near enough to drive home

In addition to their shattering powers the Andrenedans employed a wave length of the nitra-violet type. entirely mysterious to us, but which brought paralysis and death at a great distance to all life it tourhed. New ideas, inventions, and suggestions noured in to Great Headquarters from all over the world. Everything that seemed worthwhile was given serious consideration. Holland flooded large parts of their country fice, for the Andromodans soon drained the flooded areas. In India, in northern Africa, large numbers of natives lost their fives in futile, frantical charges. In Japan two entire armses were wiped out in a vain atternot to save Tokio. Brave men there were and many.

basis. It was like fighting with hows and arrows against In desperation the high command was finally turned over to new military and naval beads for a supreme effort. Enormous, frantic preparations were made threezhous the wide world. Every Andromedan sector was to be stormed simultaneously with every possible means. It was to be a sururise attack on an eric wale. At the zero hour a racko signal flashed all around the world; and the entire forces of every ration, big and little were hurled forward to take by stonn every stronghold, and overwhelm the invaders with one fell swoop. The attacks were terrific. Persistently and flercely, with ever-mounting, staggering losses we humans drove on, ever on. There was no stopping, no turning back. Savagely, desperately our attacks continued in the very laws of death. The heroic greatness of man-Won with a hillion deaths on countless battlefields rose to supreme heights. The Andromedans, if they had such

knew no let-up and defied death itself. But they had by this time become fully aware of the eletermination, the craftiness and the destructive might of us bumans, and were fully prepared. They evidently expected it and were not careful unawares. Vast numbers of soldiers and other combatants were annihilated by their irresortible powers of destruction. All efforts were futile. It was meddening not to be able even to come to close quarters with the enemy-it was like horder of savores against organized steel and emplosives.

GREAT and unexpected tracedy had befallen A GREAT and unexpected imposy and mankind. That such a state of affairs should have come to pass second unbelievable. Here was the shud-

leasly. Day and night a constant stream of their spaceand departed. They came by the millions. To the chserver there was something overwhelming, something feresistibly cosme, about it. As the Andromodans but north and south, for the conquerors were extending themselves in an ever-widening, continuous belt clear according to their own civilization. For countless ages Man bad ruled the earth. Where-

dering, the humilisting spectacle of Man, hitherto the

or became subject to his will. But his sovercamply over life. Not always were mun's conquests peaceable or bloodless; in fact, they were seldom that. Always, nearly always, man's crucky to animal life, even to himself, has caused endless suffering-often needless suffering. In his egotism and power man has mayely taken it for granted that all living things were placed here for his special benefit-just given him to use as he saw fit. He tortured, he slew-he ate his living contemporaries. In his vanity he built whole religious to instify all this cruelty. And this cruelty to life, although often inevisake of sport. Have the strong always been kind and

generous? What of the Mayas? The North American

Indian? And what of all subject peoples? Overnight, as it were, the conditions had suddenly for ages had taken its overlordship of the earth for granted, suddenly found itself in the same position in relation to the Andromedars as the inferior creatures formerly hore to mankind. It is true they were anarod done with his interiors; for the Andromedans had no need of man nor of the other forms of life. But everincreasing masses of humanity throughout the globe found themselves homeless and poverty-stricken; forced to move on and on, always north or south. Families of wealth and influence, the rulers, the mighty of this earth. found their property and means of sustenance gone; feelings at all, must have been filled with admiration for the spic spectacle of this magnificent heroism, which disposacesed. Verily, a mighty nemesis had overtaken The good and the bad, the poor and the rich, the strong the meck-all were engulfed in this consumine disaster

Still the inexorable spreading of the conquerors went on; east and west, north and south. The mishey stream of their migration continued until they usurged the best of the habitable globe. Human civilization groped, stagtook their frightful toll. Untold sufflions periahed At last the pressure of the conquerors ceased. The avalanche had spent itself. In this most frightful of tioned boundaries and divisions were obliterated. All humanity, or what was left of it, became as one. And be it said to the everlasting credit and honor of man-bespending the truly fine grains of gold hidden in his united all; and heream, generosity and self-sacrifice

A TERRIBLE pestilence had broken out smidst the annyising masses of humanity, the wast majority hithertn unsettled terrograte and arche lands. It was The air was full of it; and in the disorganized condition existing there seemed no effective way to combat the disease. It continued to carry off larger and larger numbers till it was feared that, what the conquering Andropitte.

Prominent among the doctors in Siberia, batching with

brira, was Dr. Sakaida Kawamura of Japon, formerly a bacteriologist of the now destroyed Flowery Kingdom, labored to do what was possible in stamping out the dread disease. Dr. Kawamura had been the leading world authority on bacteriology. He finally succeeded in isolating the germs of this disease. Gradually an idea formed in his mind. He discussed at with his collearues; secrecy was enjoined. A completely worked-out plan was presented to the Council of War Ministers, which

The plan was approved. As drowning men cauch as a straw, so did those who kept their heads in this supreme hour of tragedy grasp at the new idea. Throughsaving elements of Man has been the magic word; The idea did hold out great hope; news was fisaled about without revealing its nature to holster A secret expedition was carefully fitted out. It was

waning spirits and instill new courage

a daneurous mission, compased solely of volunteers of all races, for it most likely meant sure death. Each man was carefully trained and rehearsed for his part, enemy was sharply on the lookout at all times, and it was extremely difficult to get very far into their terridred planes of the new kind, expable of over sex hundred miles an hour, were each equipped with thousands of discuss-thanks to Dr. Kawamura-secon under control as for as markind was concerned. The exlinders also contained, in addition to the virulent culture, quantities of fine steel solinters, and were muck to floot to ground the deadly messengers for and wide. The planes, stationed clear around the world, each as close as possible to the largest enemy centers, were to dash forward, release their deadly missiles at the right moment, and retrent as best as they could. Thus it was boosed that in thousands of places these virulent germs would start in

their deadly work midst the enemy and accomplish in at our command failed to do. After every plane had taken its station, each manned tory staff of the Pittsburgh firm. He was an indefativby the pick of the world's aviators, a prearranged racks

lived in greatest numbers, went home. The disease was respiratory in its effect, and as the Andromedans were air-becathers, unless they were for better envisioned to battle with it than we were-in these matters doubtfulthe erodemic should spread; and, being most violent in least cause vast numbers to die. But, also for the broses of humanity. Nothing happened. If the pestilence did get a start, either they were more immune or their science was capable of coping with it. The plan failed to produce the desired result. Stark grief and desents FRANK RUSSELL HOPKINS, Se D. Ph.D., for-

death to them, it might neove the salvation of mankind;

Time elapsed. Nothing was known of the result. A number of the during heroes returned; the rest never

merly of Cambridge, Mass, had settled in Maritobs. Along with the rest of unrooted humanity be was endeavoring to reconstruct as well as possible has shattered life. He had lost his only son and eldest daughter, a and young daughter they had fled from their native New England home, which their forebrars had settled centuries ago, and, gathering what meager possessions it was possible to take, moved north, away from the A time came when it meant sure death to remain. At first, great numbers, finding the usurpers benignly in-

different toward taking life, lineared on trying their best to live among the conquerors. But this was a diffilingered were at first uncoremoniously pushed to one side -in such a manner as one would disregard a pest of ants-and then, realising there could be no truce between out to death those who resisted. Pically, exisperated by the tremendous and ceaseless efforts of us humans to defend our hirthright, and harrassed by our constant

Andromedans destroyed on eight any human being For several generations the family of Hopkins had been of the typically inventive type, contributing mightily to our vast industrial progress-useful with small recompense. As is often the case, the decamer and the inventor does not always share in the fruits of his ideas; so the Hopkinses, though proble of ideas that enriched civilization, fived with mofest means-often even pinched for the good things of life For years Dr. Frank Hopkins had been on the ex-

within their reach.

perimental laboratory staff of a great industrial firm in Pattsburgh. For a number of years before that he was on the faculty of a large eastern university. But, finding the niggardly pay of the teaching profession shamefully inadequate, he resigned in disgust and joined the laborafor beyond the ordinary. Many an important discovery or invention, which he always assigned to his company, increasing their longe dividentia, meant but a modest increase in his income. However, he was frugal in his habits, and, aided by an extra contrainsion here and there, at the are of fifty manusculo to save us a moduse concer-

54

The parts all-showing dress of Dr. Heydins was the roless of tannel energy. Lodde up is every grain of said, every his of maint, were controves some of energy which if it could only be tapped, would revolutionate the world. For years all of Dr. Hopkind spare time, and more, was occupied with his dazzing possibility. So absorbed did be finally become in the great decay, that is time west on he become mere and more discussed to the control of the property of t

He was a kindly sort, always putting humself out for others and beloved by all. Upon the inhoritance of a legocy left to Hs wife, the fundity cause into an independent position. Site undertending cause into an independent position of the underway and was immunely proud of this. She loved himdeally, forever booking to its constort and abstacling interpretation of the contraction of consisting. These residence in their native town of Combidday. These

Dr. Hepfatt deveted all his time to the working out of his great draws.

Several times he had been on the very verge of the peoplal discovery—a discovery hat would do for civitantien what fire did for princeal man in the dim and fregotten past. He have all this, But always the sidimportant dettill, necessary to complete practicality, teached him. For hours, fee days, his mide would seek with the problem, until woray and exhausted he would done off into distorber, from which he world when to

take up the subject with renewed determination. On the bitter day of his forced migration, with fear in every hisrit, and the temperature lowering round zero, the control of the control

fere of the harred, and the driven, which randoml was experiencing in all its bitterness, Dr. Hogdein saul his little farmly departed in haste from their arciter homehord. Northward in their mechines loaded to especiely, in company with follow uniferers, they realest their way have—nor how it would end. Refugees from all over he world crowled into north Ganda, one of the lawses

In common with some of his former towermen in far off Manifosh—for this first had they been direct— Dr. Highian took up the loose ends of his existence. Rade shofters were built; however the similar of a civilized life was carried on. Large numbers of people in all walls of fits were crowded together, sharing the same hardships. The senselsas frivolities, the steps if incasive, which former's foomed to large and important

y in the minds of many, were now meaningless—only worthwhile things mottered. In this great transvaluation of all values things were where they belonged, and is the true were quickly affect out from the false. The first glaus of pyronaching spring were halied with egreat joy and thanksgiving. The refentless pressure of the Andronochus had relaxed. There was time to

tereithe. more Dr. Haydein sock up his log registeric fractions for agent of this blowed mbyter of summer-ergy. The profound misery of those about him only reducible his energy and determination to susceed. Giver as a bell be saw the immonse possibilities. If he succeeded, a wagmen could be forged whose irreducible might should redom all for lost immonity, world respect More out to, theore from which he had been so put More out to, thereof from which he had been as

IT was a great day for mankind when his efforts mot with success. The final, dusive sides of the problem were solved. Again and again he tested it, the coupling positively—proved to hisselfs, beyond the peradventure of a doubt, that he held in his hand a new power, infinitely great, for good or will.

Dr. Frank Russell Hopkins stood before the magnet Council of War Ministers—more shorn of powers—desicentrating and explaining his tremendous discovery. Will hand breach and sharing eye in explained in best Will hand breach, and the stood of the stood of the energy, which he had onlyed at last through a cambination of discovery, inturitive discharion and ingenious invention. With wide open eyes and gapting months, they strainliness. Care fully begand and rightly used, dosignificance. Care fully begand and rightly used, do-

so understand for the kymne and could exercely be folwed sensy the regard. Its goods and birdly. Dr. bowlet sensy the regard. Its goods and birdly. Dr. that compy locked within the store, a very to break down the conflavory scholars between the precion and electrons, the conflavory scholars between the precion and electrons, the conflavory scholars between the precion and electrons, cutting of a stories correctly to matter was and electrons, cutting of a stories energy to matter was allowed, it bad a terdievry to speech with an unspendible facescents, a cutting of a stories energy to matter was seen and a terdievry to speech with an unspendible facescent, and path; and miles storyed would continue in stealy spread used the earth sense face of the earth was in and spread used. The conflavor is a story to the contraction of the sense of the terminal contractions of the south every will have

feereity for meeths and years, burning fixed out only when the storation energy in the surface it was stracking was dissipated; and is dismont-hard, transcuttomistly havey substract resulted as a residue. The dissintegration could not go far below the surface, as the free copygen in the sit was a necessory part of the consuming results. There was only one substance which was integrations to not could conduct this all-consuming resurve—a chall-

to and could confine this all-consuming mergy—a clasifile substance which Dr. Hopkins had worked out. The could be easily manufactured in great quantities. Its successful formula had been the most difficult thing his gamba bad to contrad with—the doctor had tried every

snown element and possible combination of elements and its invention was perhaps the most marvelous part of the whole discovery. (Continued on one SI)

THE Chinese, ingenious in methods of torture, hope of very effective method for disposing of their victims or making them "confess"-the constant slow driveing of cold water on the head of the victim. The very monotony of the slowness and rhythm of this continual drip, drip, drip, and the slow chill of the water work hove with the victim. But a slow, everlasting monotone is not the only sure means of eliminating human life. An accelerating rhythm of certain sounds must have definite detrimental effects on the human organism-depending upon various factors, some of which story by Mr. Cloukey.

> Illustrated by MOREY



Rнутнм

I was several years ago, in 1999, to be exter, that Graham Greens and the Flammy Atom and I had our fittle adventure with the mid-blooded Galwoon and his flything toy. It was quite a scientific affair. Because of my Hiddung freneddig with ballow Green, I settlemed the cettle drama from home for the strength of the st

stand my story. Flist, Graham was the step-rephew of Elmor Flist, Graham was the step-rephew of Elmor Calvroor. Second, he was a cripple and a selentist that a human, fourbille man. The Flisting Atoms Invest Mosed him even more because he was a cripple. You so, be had been flight from New York up to the Main coast to apend a wool-end with her and her family, when an unspectful sleet-stamm of exceptional violence had so managered last extrame of exceptional violence had so

By
Charles Cloukey

cassed him to tell his plans

that he had crashed in the New Hampshire hills. Both his feet were crashed and it was almost three days before he was found, so secluted was the place where he fell infection had set in, and in spite of the marvelous modesal a science we possess at the dawn of the twerty-dirst century, the left leg erms off at the laser and the right at the addle. His heart was perminently weslened Cohrono learned of this last fact. Grabus mover made

Greene had been engaged to the Atom for more than a year before his crash. The accident made to change in their plans. They had still almost a year to wait, for the girl's parents insisted strongly that she was not to marry until she was twenty-one, "Flamme Atom" was my friend's scientific pet name

ficted her perfectly, whereas her real name. Elsie Damon. absolutely failed to do so. She locked an inch or so of five feet, while Greene was six-feet-three with his artificial lery. She passessed a head of heir whose color closely approximated cochineal carreine, instead of the bricky

crange common to most red-headed people. With her perament, she thoroughly justified the appellation He and she and I were listening attentively to the legal matter being discussed by Paul Jameson, family heaver to three generations of scientific Greenes. The

aged legal man was replying to a question that had been posed by Graham.

"The first of next month will be the tenth anniversary of the disappearance of your father. Unless he should reappear before that day he will be considered legally dead, according to the present laws of the state, and the fortune will go to you, together with the only key in Bank, which is one of the business properties were father controlled. In the want are the only remaining tions which would permit a scientist to repeat one of your father's greatest discoveries, the secret of which, at the present time, is known to no other man. You are yeare

of that to which I refer. "If, however, you should die before the first, the fortune and the key would then go to your father's stepbrother, Einser Calvroon, according to the terms of the

Graham's artificial timbs were so scientifically perfect He seldom used the heavy care that he always corried with him. As the three of us walked the short distance back to the spacious, well-resulted laboratory that had bots the elder Greene's, I made a remark about the rather unusual provision of the will, which care everything to Graham, and yet said that should be die everything was to so to Calorson. I was smalle to refer to from speculating as to the motives of the man who had written that wift. My remark eaused my friend to break

"Von, you know very well what is in that vault, the thing that Jameson so excefully avoided in his roundabout speech. You're an older man than I sen, and undoubtedly you remember the events of ten years ago much better than I do. But I remember enough. When my father produced organic beings artificially in the laboragory, when he succeeded in the horribly comolex task of life somewhere in the phosphorus compounds, yet remember how his great work was received. Because he halsted upon keeping his method a secret, he was branded as a froud by the scientists of the world, in spite of his recognized shifty and his pastained recutation The others could not admit the possibility of his accomplistment without incontrovertible proof and demonstration, which he withheld. They would not take his

word. And be had his reasons for withhelding that

Graham continued in a tone that grew more gloomy.

secret, Von!"

a fake or an atheistic, inhuman meddler in God's affairs. than which nothing could be farther from the truth. Panetics made one attempt after another to kill blin. believing him in league with the devil to destroy the world. Dozens of attempts were made to break into the He killed one thief in self-defense,

"Then he put everything in that wailt and destroyed all keys to it but one, which is in snother vanit. Few people know what Vault Number Three contains and Sewer know where its key is

"And the people of the world denounced him either as

"The world was no longer safe for Thornton Greene, branded as a fake by some and as a menace to humanity by others. After the sixth fanatical attempt to kill bim, in which I myself berely escaped death at the age of sixteen, he disappeared from the world. But I know he's not dead; even though he's never communicated with me, he must be alive in some part of the world, with a changed name and probably a changed face also, safe from identification, still making his marvelous discoveries in half a dopen lines of science,

"The key will soon be legally misse. Unless my father returns or sends some message to me I am going to follow a plan I have long had in mind. For eight years I have been obtaining the best possible education along the lines of biology, organic chemistry, and related sciences. Most of the world thinks my father's records have been descroyed. That is what he wanted the world to believe. I hove I have qualified myself to understand and receat his experiments, and to carry them further in secret. If I find any way in which his discovery will be of any benefit to the world I shall publish the whole process and vindicate him in the eyes of science and humanity. If I don't, I shall destroy every vestige of the notes, every shred of evidence. I think that is what he

The next day we encountered the rhythmic toy, Elmer Calyroon had been planning for mentis to kill Greene. I do not think it was the money be desired. It was that scientific secret in the lockof want, the secret of synthetic life. Calvroon was a scientist, too, and to his warped point of view it was absolutely necessary that Graham Greene be eliminated

But he realized that he would be respected at once should Greene be killed. The murder laws are strict. It was necessary further that Graham Groone be eliminated

in such a way as to leave no possible chees to the manner of his death. It was highly desirable that his death should amount to be natural. Calyroon decided that he could not take a chance with any of the ordinary methods of marder. If he were ever to profe by the killing of Greene, the crime must be perfectly done

The device which the sardonic scientist called the rhythmic toy was born in his brain from the union of two extirely different memories. One was the memory of the similare crash that had deprived the tall hely of Thorston Groose of his feet. The other was the memery of a few well-proven physiological facts. He constructed the machine. After all, it was a simple affair, operated by a small electric motor

On the early morning of April 8, 1999, when my friend was alone in his laboratory, he received a phone call from Calvroon, who invited him to come over to his laboratory and see a new invention. So Gesham walled calmly into the trap.

with the two men for the long years I have, this action on the part of my friend may seem incredible. You may wonder why he did not suspect anything wrong. From my intimate knowledge of the men, I believe I can an-

In the first place, Graham was not of a suspicious

nature. In the second place, the invitation was so natural and aboveboard that it did not arouse any suspicion. In the third place, Calvroon was an inventor with 780 patents to his credit, and he was rather vain about it, in his cold, reserved way. It was his regular habit, when his step-nephew before taking out a patent and selling the device to some firm that could use it. Several times, in company with Groham. I had visited the combination him explain, with that curiously suppressed prick in every tone of his voice, the principles behind some new addition to his large family of ingenious mechanical inventions, the details of its construction, its uses and advantages over the previous machine it had rendered chsolete. So on this morning Graham thought merely that his step-uncle had completed some new machine and was ready to demonstrate it. He went over to the other

laboratory without the faintest shadow of a suspicion order to obtain those records and notes in Vault Number I had just finished a late breakfast and was idly wondering why Thornton Groune had equipped Vanit Number Three with a key instead of the ment combination lock, for it seemed to me that the latter would have served his purpose well, when the Atom called me on the phone and aspounced that Griham was not at his lab-

cratory, but had left a note for her saving that he had some to Calymon's The Atom was immediately suspicious of Calveron. She had never liked him. She exclained that Grahous had expected her to arrive about noon, and had left the note in case he hadn't returned by that time. She had arrived early and had found the note. Then, she told me, she had telephoned to Calvroon several times with-

out any of her calls being answered. She was anxious about her fiance, and asked me to accompany her on a arreed, for I could easily detect the fear and suspicion in her woice. I called Calvroon myself and got no answer. I felt messy at once. Calvroon had always impressed me as a man who would stop at nothing to goes his ends. Swidenly it seemed quite possible to me that he was pleaning to abduct and full my friend in order to obtain

warried the secret all for himself. I don't thick it even occurred to him to ask Graham to share it with him. If be had, Graham would in all probability have refused After I had rung the bell and knocked on the door for more than five misutes it opened and Calvroon bicould stepped out of his ishoratory. Seeing the Atom and me. he inquired in a level, balanced, cold, and rigid voice,

"What do you want?" I invented some plausible faction on the spur of the "I want to see Graham Greene," I stated, "An important message has just arrived for him and I must almost hustily, "Graham Greene is not here." He turned on his heel to reenter the lab. The Flaming Atom flared up angrily. "Yest'ee lying. He is here."

Before he could stop her she had darted past him into the laboratory. Calvroon turned silently and followed "icebox" door at one end of the room a door that was obviously soundproof, as was the room to which it cave ingress. Calwroon had apparently come out of this morn

to answer the bell, and had left the door open a fraction In two seconds the cold-blooded maximan at my side produced a small derringer pistol, the type that fires those nurderous mushroom slags, from a eleverly concealed sleeve holster, and shot down the Atom. She fell in a little heap in the doorway. I made an involuntary motion toward Calvroon and found the little gun with the

big bore looking me in the eye. Calvroom's eyelids drooped a little as he enunciated his threat. "If you move one inch, Von der Konz, I shall kill you." I did not move. I was not armed and I had seen enough to convince me that my captor would corry and his threat. I persisted my hands to be bound behind me with small but very strong metallic cords. Then I was

efficiently gagged Calvroon's bullet had glanced off the Atom's temple, stunning her, but infletting only a minor flesh wound which bled profunely. She regained consciousness just as the man with the gun finished binding and gagging

Then Calvroon took us both into the soundarned room. Graham Greene was there, gagged and tied to a chair. His face was a study in despair when he caught sight of the girl with the red blood slowly drinning from her temple. He made one mighty but ineffectual effort to free himself. Calvroon used the gun to persuade me to submit to being bound to another chair. Then he took the kicking, struggling, gageed girl from her lover's side and bound her to a third chair. Finally he stood off and regarded the three of us with an almost puzzled ex-

Then the three of us listened to an unusual speech. Calvroon calculy associated his intention of killing us all and then proceeded to explain to us just how he was going to do it, in precisely the same tone as he used when explaining some new invention. It was that succreased

his plans. Some of what he said follows: When I first decided to kill you, Greene, I realized that it would be best not to use any ordinary method of inflicting death. Chemistry today is mereclomly advariced. Any known poison could be detected. All deaths by violence are strictly investigated. And I realized that I would immediately be suspected because of the terms of that will. So I devised a method of killing

death. When you are found in your own laboratory tomorrow or the next day no one will suspect that you didn't die of simple heart failure. If they do suspect, it will never be proved, for I am going to kill you scientifically without leaving the slightest evidence of that fact. I have recently been working on a number of improvements to the pipe-organ, and I had this sound-proof

near by complained to the authorities about the various noises, musical and otherwise, that I was producing practically all of the time. This room permutted me to carry on such experiments without moving my whole "In the convertment in the wall behind that latticework you see at the left, which compartment extends also

down into the besement, are several organ pipes which I was much a few months and to produce very low notes. for experimental nurposes, some of the notes being so switch in the wall, when I throw it, will start an electric together with an automatic device for gradually mereta-

ing the speed of the machine that plays them, constitute the investion I call my rhythmic toy "Let me explain a few facts about rhythm. Why is it that music affects a human being? Why does a anappy, rapid murch make us feel energetic, patriotic? Why does a femoral march came the average person to feel sad. melancholy, and decreased? How can we explain the

"Part of the answer to these questions is in the music itself, the motor or mirror key, the sharps and flats, the trees of the instruments. But rhythm plays by far the greater part in it

"The human heart has a strong tendency to best in time with any perli-marked rhythm. A rapid march has a strongly marked rhythm that is faster than the usual bearing of the heart. The heart increases its speed to keep up with the regular boom of the big bass drum. Consequently, blood is supplied more rapidly to the brain and to the muscles. As a result the body and the mind

fresh blood. That's why a dance tune will set your toes twitching. Also, the increased flow of blood removes impurities from the tissues more rapidly, and the person "The same thing is true of a funcral march. It too possesses a well-marked rhythm, but in this case it is slower than the usual best of the beart. Involuntarily,

the heart slows down to keep with it, and blood is supplied to the tiones more slowly. Therefore, the mind is sad and depressed, and the body dull and lethargic. "The American Indiana and other savages all over the world were accustomed to hold mortimes about their compfires and chant their strangely rhythmic war sough to the accommaniment of the hollow note of the tom-tom, science involved), started at about the regular best of the heart and slowly but steadily increased the speed

until the savages, their blood surging through their ment and courage which they did not ordinarily possess. "It sooms that the lower the note, the greater the effect of the music of the trumpet or of the piccolo nearly as

much as the rhythm of the bass justruments. The drum-"The machine that will play this organ pipe will prochice short, rapid, low notes, all shike except that every fourth tone will be slightly accented. The speed will

"If I started it as too great a speed, your heart could not so with it, but instead would beat with every other note, or every third or fourth note, as the case might be So I shall start it at the average beat of the heart, about seventy five heats a minute, and it will slowly, very slowly indeed, increase in speed until five hundred or even more short separate notes are produced a minute. But that speed will hardly be necessary. Long before it reaches way under the strain. You will be dead

Though my actual crime will be perfectly done, I am last now realizing that I have been provely earliess in the preliminary matters. I have persetted you two others to discover me with the greatest east. I have been devoting too much thought to the technical side of the matter and not enough to the practical side. A failing of the scientific mind. I suppose—the so-called one-track mind. I should never have been so careless.

"It is obvious that your medifing must be rewarded by death. I strongly doubt that my machine will be able to work your hearts to death in the same way as it will Greens's, for yours are healthy and normal while his has been greatly weakened. You will probably be able to survive the utmost rate of speed I can obtain, but again you may not. I shall lose nothing by trying. It may save me the trouble and danger of disposing of you in

"It occurs to me now that perhaps I can put your bodies in a radio-controlled plane and crash it. Then it will seem as if Graham Greene died of heart-fallure when he learned that his forms had closed with his best friend. The shock of that double disloyalty will seem to have been too much for him."

Perhans it was that incredible, inhuman peids that promoted him to bese to us of his clever way of killing us that made us hate him the most. Or perhaps it was the last part of his plan. The Flaming Atom and I were close personal friends; futhermore we were both racing pilots and had each distinguished himself by capturing a world's record now and then. Because Graham Greene was my friend and the Floring Atom's sweetheart, our

nancra. Calvroom's explanation of our presence in the crashed plane would have been very convincing to the Calyroon said much more which need not be added here. We could do nothing but sit there and listen to making the final adjustments on the machine when the

Atom and I had knocked on the door. He had heard usonly became he had happened to leave the door of the sound-proof room open. Column started the device and left the room, closing the brave door. As mar as I can judge, that was at

three or four o'clock in the afternoon For three hours, three hours that seemed as three thousand eternities, I listened to the damable, never-

cessing steady rhythmic monotonous hollow notes that over and over come faster, but whose speed increased so slowly. I knew that the blood was rushing through my veins, but I assure you that I was not feeling either clated or patriotic. My surplus energy was being used up by

the fear that I could not conquer, by my great anxiety for my friends, and most of all by my anger and hate Mentally I corsed his soul to hell at least these trillion still. A strangled scream come through the Atom's corand great tears formed in her eves. I looked toward my swore that somehow I would revenge him. I could almost read the Atom's eves. In them, too, I saw that determination to get revenge. It had been such a cruel for three hours after telling him how he was to die. I was soul-sick to see the love and pity in her eyes. There

All during those three hours the Mood had been trick-

The blood had not clotted very well. For three hours she had been blooding, and the less of blood mon weakened her. She sagred forward too, and I was glad.

She had fainted from loss of blood and the shock she now. She did not bear it. I could see her beaum rise and fall with her slow regular breathing. The thought came to me that perhaps her wound was to save her his, that perhaps Calyroon had defeated his own numose to a certain extent, by shooting ber, Her weary, broken

But mine was not. The unending throbbing hellow note filled the room with its reverberations. Alsony it was the merest trifle faster. Though I knew that it was meleas, I used every last cunce of nerve force and willpower I possessed in valory trying to control the heating of my boart, trying to make it obey me and heat more slowly in some of the rhythmic monster. I sweeted blood trying to make my heart obey me. It can't be done

Then I tried to go to sleep, to outwit the rhythm that way. Did you ever try to go to sleep in a morn next to a low! and never-ceasing june band, and he awake hour after hour rettless and uneasy, because of its rhother

secrest trifle of the agony I endured, waiting for a I wondered if it were within the limits of possibility that Thorseon Greene would return from his biding and arrive in time to avenge his son and save the Eves of the Atom and me, to say nothing of saving his revelops secret from one who had so right to it. But that was a last desperate forlors hope. Thornton Greene did not

crone back from the dead.

It was late at night when Elmer Culvroon entered again the sound-proof room. He saw my face and cringed a moment from the hate he saw there. He collected himself immediately, however, and odvanced toward the figure of Graham Greene, still hanging limp in the chair. His coming awoke the Agern and another choked scream came from her, as he untied the bonds. He paid no attention to her, and finished untying the thin, strong, metallic cords that held the tall women Then with a dramatic suddenness that affected my

heart more than any devilish rhythm could ever have dene, the dead man stood up rapidly, firmly, and solidly on two scientifically perfect artificial less and soung a beautifully clean and efficient right to the jew that lifted

Graham Greene ungagged bimself and enapped off the Then he released the rodiantly happy Atom and his unbelieving friend with the guttural German name from their respective bands and tied his step-uncle thoroughly, garging him for good measure.

'Von," he said, "will you run in the other morn and call up the police? I'd like to kill this fiend, but it's against the law." I lost no time in doing as he requested When I returned, the Plancing Atom was standing on

a their with her arms around Graham's neck. Love laughs at trivial differences in altitude Half an hour leter, when the Atom finally consented to

tery that had been puzzling me ever since he had cleaned "Von, my friend, I'm sorry if you thought I was dead when I dropped off to sleep there. That rhythmic tox would be deadly to most people. It probably torrured

you terribly. There's not a thing wrong with the principle behind it. But for one thing, it would have Miled "It's a scientific fact, Von, that some people can bear

sounds that others can't. My cars are exceptionally highpitched. I can hear the squeak of a bat and other shell sounds that the majority of people can not bear Calvroon chose the lowest note he could to be quite sure our hearts would stoy with the strature and it was but below the range of my and bility. I could on to sleen in perfect comfort, except for that gar, in a room than seemed to me to be as silent as the touch"



## The

# Green Girl

"AT hick near on Mo. 6, 199), the new went cop?" These states the ferror, as tald by Mainte them, forter one of the form Welliam formers along the state and in the form of the world, while above the world to

See that the second of the sec

### CHAPTER XVII The Lord of Flame

MUST have stood dree many minutes, but in fustful revers. Unconsciously there's Sum and Meson moving about below, heard insied the murraus of their convertantion. At least my given cheekings of the horner that was to come were interrupted by Sum's cheerful half, and I went below. I came upon Kropes in the calon. See was arrayed in for the control of the control of

I must have fluided securivini, for ale implied at me. But the chosen less may be ref displacative—the had no reserved what I had up She looked squarry had no reserved what I had up She looked squarry human and with those code vicinity are She looked squarry human and harman feelings. I read honest understand he had not have the same of the same should be supported by the same sh

By
Jack Williamson

Author of "The Metal Mon"

Illustrated by WESSO

IT must be generally conceded by anyhody who has thought about the subject at all that there are many forces absolutely unknown to us. How, then, can we tell with what drive ing powers and activations these forces might be imbued? Or what inimical dangers might be hidden within them? In the concluding chapters of this scientific classic, which might unheritatingly be numbered among the very best ever published, the author continues the accelerating pace set in the first instalment. And the story is full of sound science, so cleaerly intercoppen with good fiction, that it reads like "The Moon Pool," for the outher bourges not only the art of writing, but excellent imaginative pawers as well

form. He had the limit deliner grows solet and gas usual, with the singlence was considered for white higher games to that each fee terrible even glave. It was very grown to that each fee terrible even glave. It was very considered to the control of the control

"Who exree when they think about it?" I said.
"Whe's found ber, Ther's all that matter?"
Whe's found ber, Ther's all that matter?"
Xition sat down expert. I found for its within the large state of the manipolation ber.
Xition sat down expert. I found for the within the large state of the manipolation ber.
Xition sat down expert. I found for the state of the state of

misfortunes had the brave girl been through?

Presently, when alse was somewhat satisfied. Sam began questioning her in an effect to find out something of the strange world about us. "Where do your something the same the same than the same

the began.

"Once Lother was an empire that girdled the central
teal sea. But many lifetimes ago the evil moves of Marton

my race, living in the forests by the northern cliffs. And even they are taken to serve the Lord of Finne—"
"The Lord of Finne! What is that?" San crited in arranement.
"It is a dreadful thing—a serpent of green fire that twoffs in the volet mins of the chasm of Xash," she

dwells in the violet milits of the diasm of Xath," she said hastily. "But let us not speak of it. No men speaks of the Lead of Flame, for it hears—stay! Oh, horror! Do you not—feel it?"

And indeed, at her words, I feit a strange and alien

theill, as if the revealing scarcilight of some dreadful power had been suddenly thrown upon me, as if some strongs wind of fear had blown upon my soul. I shipered involuntarily, and creached elseer to the others,

ered involuntarily, and creathed eleser to the others, trying to drive the horor from my mind.

"God!" Sam breathed housely. "What can we be

organization measures measures to thought to a gainstiff and another the girl were immirably on, as thought to In a moment the girl were immirably on, as thought to International Control of the Control of Contro

the tree, but the Lunck campli me. And that was the left I know, until I week, from my dream of—of—of—incredible advertises are until I week, from my dream of—of—of—incredible adverturines were to be taken as a matter of course. I could not speak for the play and horrer that were mingled with my administration for her course. But I could, and did, reach under the table and table he hand. Therefore each of us countried—after a fash-

lon-to est with one leted.

That brief and puzzling account of her adventures was all that Xenora was able to give in until experience would enlarge our common vocabularies. Certainly it offered plenty of food for conjecture. She had little

offered plenty of food for conjecture. She had little scientific knowledge; and when Sam continued his quetions, the accounts she gave of the origin and meaning of the strange things she mentioned smacked more of much then of history.

"Has the Lord of Flame always been, Xentorn!"
"No," the Green Girl answered. "Back in the beginsing, ten characed lifetimes part, the zent of Lutturruled, and there was no Motion to carry them to Xuth. The warriers of Lother were very haven. They fought the Lursaks, and hunted the beasts of the plain. The kings of Lother religated in a lumider clittle that ringed

the central see, and there was food and joy for all. "Bot the London were very wise. When the great men of Lother becapit weapons of fire to fight them, we have been be jumped and laid on egg, and jumped it, and there spring up the Lord of Flume! It is a server of green fare, as thick as a mountain said as long as a river! All these was consistent of the laid to be a single of the laid o

"And from that day, through countless lifetimes, our people have been worshipers and slaves of the Lard of Flame. Those who are taken are no longer as men, but as sleepers walking, with the fire-crystal on their hazks. They fly in ships of Marton, the City of the Steepers.

"Well, I'll be discontinued and the fine and the fine face was a study. Increditions disablish was there, and ammerican, and secontinue of fear and horror, too. What the gird said had all the carmarks of a first side. But we lead seen the inetial upon her body, and the propie thins—and we had felt the mollace, incredition—"in groundled? Mel, it can't bel. It's too featneties?" It groundled? Mel, it can't bel. It's too featneties? I could make no assert. "And you, Xerora. You

I could make no sasser. "And you, Xenora. You were taken by that thing?" I cried in sudden borror. "I was taken in a slab, and carried to Matron, the City of Poor. There they fistened on me the fire-crystal. Then my mind was in a sloer, and my limbs

did not what I selled. Use'll the ship fell my life was a nightenine of tool and berrier. The Lunast took me, and I knew mathing until you found me."

Xenora still seemed rather weak and tired from her berrille ordered. After we had eaten, Sam and I controlled the still seemed to the sellent seemed to the s

terrible ordead. After we had enter, Sim and I conducted her over the skip, with a view to convincing her of the wonderful gower of the machine and thus to quest her fear of that mysterious memose. We started the engines and moved the machine all title. I fared the print for her collisions, to slow how the mutuart and been killed, and Sam showed her have been considered to a statement and careful it over to be.

As she went into the room, Sam proposed that he and I go hunting. His real object, I think, was so get some fresh meat fee the little winged plant, but we wished to learn as much as possible of the fauna and flora about us. I was not eager to 'leave the machine, but we were

armed with the best of weapons, and there seemed to be little danger. Then, we introded to be gone only a few minutes. When we were ressly to start I tapped on Xenora's door, so tell fee that we were leaving, but she made no answer. I suppose that the was already

we climbed up on deck, and closed the hatch behind

#### CHAPTER XVII

#### Lost in the Purple Forest

WE WALKED off out through the level green measures, because the scattered treas that were beight with purple bloom. For my own part, I was much more interested in the wegatation than in any game we might come upon. In face, I would not have been greatly disappointed if our hant had been in wain. The leaves of what I have called grass were resily no wide and thick that is was headily grass at all. The

higher stome of it bore unytains of may heightered flower. The great trees were, in shape and follary, somewhat like the old, though the rich profusion of the purple flowers almost concealed the lower. They bore small fruits, he appearance a little like the date, which as we were hitter to litars, were could be a server of the contract of the contr

let sky, rine miles beneath the ocean, through forms of the purple trees that burdened the air with their unfamiliar fragrance, in search of we knew not what in the way of game.

We tramped steadily eastward over the green meadof no living thing. The Omnimobile had long been out of sight. We crossed a low greasy ridge and made our way out across another broad smooth valley.

At last, as we looked from a screen of brush at the edge of a little messlow, we saw an odd-looking creature gazing undarmed a hundred yards away. It was somelike body.

It must have winded us, for it threw up its head with a peculiar squeal, tossing its great tusics. Sam and I both fired. We have never agreed which of us hit it, but it slumped over on the green vegetation. We hurried up to it. It was quite dead. It had great claws, and somewhat resembled a sloth, aithough it was exactly like nothing that I had ever seen

Sam took out his knife and skilfully removed half of the skin, wrapping up a piece of meat in it. The beast had thack rolls of fat along the back, but the flesh has neath looked so nice and tender that he took some of it

We'll try some of it broiled when we get back," he

anticipated, smacking his lips.
"Let's hurry on," I said. "We've been gone longer than I intended, already. What if Kenters wakes up

"Let's sec," Sam said doubtfully, "The wind was from the south, warn't it?"

I looked around in sudden panic. I was almost sure that I knew the way back to the machine-almost! The strange world about us was suddenly very alien and coult. The plains were lonely and flat and dead The trees were suddenly wild and mysterious, as if

unearthly menace in the red gleam of the sky In all directions the country looked much the same There was no definite handmark. We stood there for a time, scanning the unfamiliar penceums, in the beginning of penic. There were half a deem groups of trees, fired. It occurred to me that it would be very inconbegan to think of other things that miche hannen. I came to a tardy realization of our helplesoness and atter

ignorance of the dangers that might surround us. The purple trees and the scarlet sky accused to leer at us, to guther closer, to laugh in fiendish joy at the unramable doom they might have in store for us. Unconsciously I drew my pistol, and my muscles were involuntarily sensed, so that I started when Sam spoke,

"Of course we can see the wall of cliffs in the north. up on that hill, we might be able to see the machine." He pointed toward a round, bare, green hilltop that perhaps a mile away, in the direction of the hazy blue chiffs. He shong the piece of most over his shoulder and we set out over the open field. It was very bot, and the perspiration was dripping from us. I had hardly

sometimes from one of the sparsely scattered trees "Phew?" Sam whistled, stopping to mop his brow with the buge red handanna he lead tied around his neck, "This is beginning to feel blue the Sabara! I'm giad I dich't happen to be a native of the place! You bet the machine will look good, when we find it!" "If we find it," I could not refer in from saying. In five mirates more we were far up the side of the

little bill. The side of the eminence was bare of the great flowering trees, so the strange forest lay about us

The whole weird region was very still. The only sounds were the soft sighing of the wind in the trees,

southward for many miles. Eagerly we looked in the direction that abould have been southwest, for the A west stretch of the rolling plateau lay before our eyes, low verdant bills, and vast green mendows, scatblack aca on which we had landed, glancing with the

crimson light of the sky. But nowhere, in all that you strange expanse, did we catch a glimpae of the machine "Or, I think I remember now that there was a little grove just north of it. We will see it in a stirute, it we climb higher up."

"I hope so," I said, raising my binoculars for a better "And we have companies and instruments to guide

them!"

"It's no use!" I said. "Let's go on to the tou."

The Hill of Horror

CLIMBED up the last few yards to the semithat rimmed this world on the north. We stord on a great divide. A yest valley lay before us, stretching curious checkered expanse of green plain and purple woodland aloped far, far away to the north. Perhans twenty miles away was the vague outline of a great silver lake, dyed with the light of the crimon sky. Just back of the lake seemed to be a shore of low black cEffs. And beyond those ragged peaks, and beneath the towering and rugged columns of blue that

threw themselves up to the bloody sky, was a strange There was a weird ficker of dancing lights in that fires in a pit behind the low black wall. There were faint and moving gleams of violet-of pale violet flames that changed and rose and fell. Vague tongues of vices fire wove themselves throughout that distant sose-colored mist, with a writhing, rhythmic meeton. They formed

the flaming sky dried up our energy. The steady hours But my description is futile. The important thing of heat brought over us a growing languer, a depressed was not what we saw, but what we fell! A out

abves of alien horror! 'A moment more I struggled desperately, but that pitiless power overwhelmed me! I followed in his tracks! And then, a clear rich voice reached me from beyond the bill-a shout in Xenora's rich and ringing tones. It had a clear bureau overtone of confidence and courage.

"Come back, Melvin Dane! Come back, Stan!" The old scientist stopped uncertainly, passing his hand daredly before his brow. Abruptly the terror was gone from my mind! The love and the courage of the brave girl flowed into me. And suddenly, with the green light

still pulsing through it, as though sent by a mighty heart, the terrible thing in the north dimmed slowly and faded away! Still the violet lances flickered through the rosy mist, but the green thing was gone-and we were free! I took Som's hand, and we turned our backs on the amazing play of fire above the incredible pit, and hastened to the trees from which Xenora's voice had

seemed to come. We reached the little grove, but I did not see the girl. Suddenly I had the persuasion that I had not actually heard her with my cars, after all! "Xenoral Xemeral Are you here?" I called uscertainly. Sam was still trembling and mopping at his forehead

"She ween't really here, I think, Mel," he presently said in a strained voice. "She must have reached us with telepathy." reptile. It reached up-incredibly! It writhed and For a long time then we stood there under the flowertwisted about! It must lake a great serpent of fire. And ing trees-very close together, feeling all the awful mys-

tery of the strange world about us-and thinking of what had happened. "What was it?" My silent lice at last formed the question "The Lord of Flame? Xenora said. 'The Lord of

Plame? 'A screent of green fire that dwells in Xath below Matron!'" Sam repeated mechanically. "I would to God I knew what it is!"

"And what was that awful sound?" "That was the siren of the Omnimobile, I think, You know we showed Xenora how to operate it. Probably

that saved us, by attracting our minds from the Thing "Then if we so toward it---" At the instant the wild, solbing shrick rose again, very

welcome for all the welling qualities of its tones. In a moment we were hastening down the green hillside among the purple trees, in the direction from which the sound had come. Twice we heard it again. And in half an hour we saw the glint of the silver metal side of the machine beyond a thicket of purple bloom

I have seen few more welcome sights than the Omnimobile was then. The heaviness of it, the threatening nose of the little gun, the air of irresistible power about it, and even its clumpy, beast-like appearance were reasparing. Som pave a cheer, and we made the last hun-

ladder and stood upon the narrow dock again. We elembered through the manhole. The white electric light of the interior was in strange contrast to the crimson gloom, and the coolness of the air teas very

refreshing. Xenora was in the cabin, arctiously on her

"Thanks to you, my dream girl," I said, taking her

"It was the Lord of Fisme!" she whispered, "And

you escaped?"

boldly in my arms.

Something was reaching toward us, out of the pit! I know there was intelligence in it-a soll, inhurous, and unthinkably strong! It was calling us, compelling us! I knew that in a few moments we could fight no more. Suddenly a low sobbing sound reached us on that warm, humid south wind, a sound that wailed encortainly behind us, and rose to a pieceing shrick, and slowly

died away into the distant south, echoung weirdly on hills and trees as it rolled and sank. Sam started with a hourse cry, and went off down the bill muzed the north at a stumbling run-toward that

violet aurora still kept up its storm of varying motion, in the dim rosy base into which the switch head was

was grasping at my mind. It was a heart-breaking effort. I moved. I seized Sam's arm and shook it. He swayed drunkenly, with his eyes still on the awful Earlie. He was like one in a trance-blee a man in a dream of And I felt those ky fingers of unthinkable doors closing about my own stird. I was paralyzed again, with my even drawn back to the north. The snale's head of frozen green still throbbed strangely, and the flickering

"My God!" Sam muttered. "My God!" I looked at him again. His thm face was very white, and beaded with perspiration. He was mechanically mopping at his forehead with the red bandkerchief, and staring at the mist of fleme with the glaze of terror upon his eyes. I struggled mightily to throw off the speil of amanement and terror-of alien and unseterable horror-that

out of it. And I knew that it was watching us!

It grew still with awful attention. Eternities seemed to pass as the dreadful thing hung there, motionless, like a vast frozen pillar of swisted emerald flame, like a column of curdled green fire, with curious throbbing changes in its brightness. I felt a weird force flowing

Such a look I had never seen before-and God grant that I may never see it again ! My gare was drawn irresistibly back into that martle of moving light. Even as I watched, a pillar of green fume, very bright and broad, thrust itself up through haze. It was like the slender head of some obscene green

dropped my rifle and clenched my hands, trembling. I wind that was striving to earry me toward that abyss of nebulous horror-light!

I looked at Sam. He stood very still, learning back, with hands raised and jaw dropped. In his eyes was

the look of the fresh and innocent soul that struggles with a rebless terror that it eannet know or understand!

It was terrible-on intagable own of fear that reached out of that pit and tugged at our souls with the iew barel of starte borror ! I can give the world no concention of the overwhelming terror of it! Not would I if I could, for such things are better forgotten. I

ing a forbidden glimpse of an ancient and incredible beil! Fear swept over me-alien, inconceivable terrorlike a keen and bitter wind that numbed my brain! I felt the horror of a sentient force, utterly inhuman devoid of all human knowledge or understanding, as cold and remore as the frozen night of space!

#### CHAPTER XX Sam's Pet

"I FELT it watching you—calling you—and I pulled the cord that makes the great cry," Kennea whispered, after a long, long time. "Thank God you did! It saved us! We were lost!" And I told by of the manning storm of flames, of the

Thing that had risen out of them, and of the irresistible spell of terror, from which she had awakened us. "Yes," she said. "It was the Lord of Flame. He

watches the world from Xath. He knows the acts of every man?"

I must have recled a Sinle with failing, for suddenly

I must have recled a little with fatigue, for suddenly the girl looked at nee with quick sympathy brimming in her eyes. "But you—my white prince of dreams—you are very tired. You must rest."

Abrught I realized that I was fired, dead with failings with an unstrondle weariness not only of body but of mind, for the horrer had exhausted my encloses. I had some a final fail and the short leads to the shower. I followed him to the batterous, and then went on my bank with the short leads to the short leads to the short of the short leads to the sh

protection of the heavy metal value of the Consimbile.

I have very little ride how long I slept, for we had
let our winder ran down. In the absence of the sun,
we came to per less at less attraches to the time, though
we mustly kept the chrososteria peage.

When I wake I felt greatly refraished, with my terrecised despairs almost gene. But I would not forget

to the constant numer gone. But I would not torget the sense of ovil and intelligent power that I had got from the pillar of strange green fire that had been threat to deliberately and purpose-fully up through the most of scient flame, and into the may have that hung over the historic abovas in which it brided.

violet flame, and into the rusy line that bying over the hidden abyas in which it briked. It had seen us! I know it. And I know that, even if its incredible power seemed withdrawn, it was still not for some.

not lier away.

I heard Sun speak, heard Xenora laugh. Evidently
they were in the little galley, for I heard the claster of a cooking uterals. I dressed and went in. How beauth
ful the glid was! Her red has were brilliant against the
light green can of her skin. Her dark hair fell over her
shoulders in a rith cassade, and her violet eyes were

considing with life.

She care to line quelyly, and took my land. No weeds passed between us, for our minds were too need to each to like the life of the life of the life of the life of life

a higher othereal plane and fusing our beings into our last amounts 5 man, who had had not of orderstunding on his face, colled us to the table. The steek from the thing we had hilled was a gent success, and the table was lasted with which the lander of the markine was instead. The print are heartly, and the table was less of the markine was instead. The print are heartly, and the state of the markine was instead. The print are heartly, and the state of the markine was instead, and we tabled and haughed a pool deal will be a state of the markine of the markine was included by the state of the markine was also allowed to the state of the markine was a state of t

in which he had pure the fifthe creature he had nation Alconanter. I hold only the fragistran il about the dumines tive winged plain. With simpled curiosity and repulsion I wanded him undaston the bar. I had not yet recovered from my insinceive borror at sight of the Spring plains. Naron second to date my artifugally toward farm. But Sum has always seemed to one as most for with life a far neura; and he seemed to each most for with life a far neura; and he seemed to each of the contract of the contract

After we had eaten, and all had helped wash the

scientific observation.

The thing flattered about in the box when he picked it up, and as soon as the hid was resised, if flew our and fill on his hand. Already it seemed higger and stronger than it had been a day before. The gale yellow of the

and on mit raths. Attenty it seemed higger and stronger us than it is about a day before. The pale yailow of the little fish-like body was duringing. The wings seemed little fish-like body was duringing. The wings seemed standers green, and stronger. The skedecker of the desired seemed and the stronger of the standard seemed and the standard seemed and the standard seemed to the standard

hnobbed organs restlessly. At first the color of the
Bower-like tissues was almost white, but when I made
a studien motion, they quickly deritened to a deep videt,
and the little creature croached down in Sam's hand as
if it were alamed.
Sam analied down at it with real understanding in his

Sam amited down at it with real understanding in his face.

He uncovered on the table a dish containing a great

thunk of the raw, bloody mean of the thing we had killed.

The queer, flower-like head twisted about, and the block, stalked organs moved file eyes. Attruptly the memberane charged color again, from the violet of its fright to a deer red.

Som held his hand over the meat and the slavine use actale discusped discussives and writted down over the plate tike tiny red snakes. They begue to sack the justices oft of the meat, and, as the thing filed itself, the strange flower slowly faded in coller, until it was a pake piak. Observing ray institutive horror of the thing. Som sald: "Thin's the way it was meant to ear, Mel. Nothing over twee description in a sparity in the meaners might not seem very electric to as aparty."

"I guess you're right. But that thing just gets on my nerves."

When he went to put the little creature back in the box, at clung to his finger as if reinctant to go, said

to box, at ching to his finger as if reluctant to go, send attrange beight patterns of eclor flashed over the chin of the ching passes of the chin

listen to him with great intentness,

#### Back to the Haunted Hill

# CHAPTER XXI N THE morning—if one may speak of morning in that world of eternal day—after we had slept off the forum of the control of the forum of the control of the forum of the control of the cont

had seen the lights of terror, Sam took me aside for a short talk "Mel," he said, "we can't forcet what we've come here

for! My generator is still keeping up the interference in the other; but, sooner or later, the force we have come to fight-and it must be that 'Lord of Flame' of Xences's, and the thing we saw from the hill-will

break down the interference! And then the earth-will "But what can we do sessingt-that? And Xegora! Sam. I can't leave her. She's worth more to me than

the earth! There's pleaty of room in here for us to live our lives out. I've been thinking about it-and I

He modded sympathetically, "I know, Mel. She means a lot to you. But perhaps we will win said save

"Not a chance!" I said bitterly. "Not against that thing we saw! It means death-or worse! But I suppose we have to so on and do our best!" The old man was beaming. He patted me on the shoulder. "I know you would be with me, when you had

time to think," he said. "Now, when the life of the world is at issue, we can't consider ourselves."

"What can't we do? We have the Ormimobile. We have machines and tools. We have knowledge, and our hands. We can go anywhere, and do anything! But the first thing is to study, to find out what we have to "I pancose so."

"Mel, we must go back to that hill," "Not not Not there! It was only a mimde-and "I've some theories. We'll be better prepared next

A sudden thought struck me. "Say, couldn't we pay a flying vist to our own world again, and tell what we've found? Then the world would still have a chance. when we are-rope. A half-million Americans, with tanks and heavy artillery, would look mighty good down here. And it would just take a day or two to go." "No." Sam said. "The world would hardly believe it all, even if we earried out what evidence we could.

And nothing could be done in time. Then, I'm not sure The rockets might carry us three miles high, all right; but we could never break through that water from beneath. We would fall back. Mel, it's up to us!" During the days that followed. Sam spent most of his hours in the little laboratory. He spent much time on those great machines that controlled his forces in the ether. And he invented and developed another device

that was more nearly within my understanding, "You know, Mel," he said one day, "I think I can came so near petting us. Ever since you made your telepathic contact with the Green Girl, I have had the idea that the brain sets up disturbances in the other.

We know that the action of the nervous system is elecwaves. It happened that you and she had great minds. created in perfect synchrogism, so that each was senaitive to the vibrations of the other. Hypnotism is best

"Now, I am convinced that the 'Lord of Flame' is a brain-whether in a human body or not I cannot atternet to say. It creates such powerful etheric disturbances that it was able to affect us at a distance. If that is the case, it ought to be a fairly simple matter to provide insulation against its vibrations. You know that induction or electric action campot penetrate a conduct-

ing case. I could to be able to fix a conducting believed that will prevent the induction of neurotic currents in A short time after he showed me three belinets, as he called them. They were little more than bags of wire

unaffected by charges brought near it; but it seemed a ridiculously inadequate protection against that terror. We west benting several times, for the benefit of the little plant. After the first few days, Sam let it go along, hanging on his cost. It was growing very fast, and developing remarkable characteristics. It showed surprimar intelligence. Sam seemed to have a real affec-

tion for it, and it, in turn, seemed to love him. I never crased to fast the strangeness of those expeditions over the rolling green grasslands, among the anarsely scattered flowering trees, in the hot damp air and the intense red light. We shot two more animals like the first, and three others of a smaller variety, which

somewhat resembled large rabbits. Very shortly after Sam had perfected his electroscreen belinets, he planned another expedition to the bill where we had so nearly met incredible disaster. We carried a telescope, electrometers, spectroscope, and a few pieces of Sam's recently developed and highly complicated apparatus, which he had neglected to name, for

detection and ambusing etheric wayes Xerore insisted on onine with us, and there seemed no reason for leaving her behind, since Sam had perfect confidence in the efficacy of his new helmets, and since the girl herself was an excellent woodsman, and could undertake to keep us from getting lost

We had a long hot march of it across the green plateau among the purple trees, with the fierce bearns of the crimson sky pouring down upon us. Burdened with the heavy instruments, we were morn out when we reached the summit. I had suggested that we come in the maeline but Sam wanted to keep it out of the sight of the writed enemy we fought. Once more we imped across the visit valley of purple

and green, to the mists of ruby light over that abyes beyoud the distant lake, in which the violet beams still danced and pulsed. And hardly did we have our anparatus set up when we saw that uncorthly, serpentlike beam of green fire writhe up out of the vale of mystery into the rosy hazel We had on the mentating shields, and I felt nothing

of the inexplicable horror of the former occasion; though, of course, the whole adventure was certainly terrible enough. But now that strange thing of green seemed distant and devoid of messace. By way of experiment. I wentured to raise my behavet. The terror

caught me like a cold and rushing torrest that swept me almost off my feet! I was glad enough to get the wire "It is the Lord of Flame," Xenora cried, "looking over toward the city of my people, to see who will be taken to become his slaves. This is a wonderful thing, Barromi Sam, that lets us not feel its power?"-Barroni

For many minutes the amazing shape of twisting green radiance hung in the air. Sam was busy with his

apparatus, squinting at the thing through telescope and spectroscope, and reading his other devices. At last the awful, throbbing thing faded away, and died into nothimmens. Only the violet lances were left in the mist, formed me, almost jubilisst. "And I got a lot of new

data! It is rather odd, but the light from that thing dark lines that might be expected to rise from the ab-

He said nothing more, but was sunk deep in thrushe as we quickly gathered the instruments and hastened victory in the invention of the thought-insulsting hel-

mets. We arrived at the machine again without

The Silver Sphere OR several days longer, Sam continued his labora in the laboratory. During that time "Alexander," the flying plant, developed remarkably. Before we moved, it had a wing-spread of two or three feet. I have spoken of its intelligence. It soon learned to flutter

to the guns when we were preparing to hunt. Same derstand him. He said it could even make its thoughts known by the varying pattern of colors on its fringe

it was devoid of vocal organs, and incapable of making a sound, though its hearing seemed to be good enough by means of changes of color in the tissue-like membrane that I have turned a flower. And, from a strictly scientific point of view, communication by light, or sight, is quite as logical as communication by sound. Sam examined the black, red-like organs projecting

from the flower on the thing, and said that each of them bore thousands of tiny eyes, like the compound eves of an insect. After we had been in the vicinity for perhaps two

weeks by upper world time, we started the Omelronbile's great motors again, and moved northward. I had were too closely attuned to require much conversation, probably mean our sacrifice to the cause of the world. She said nothing of it, but I thought I detected a sadness

During all the hours that Sam had been in his labora-

tory, alone or with Alexander, I had spent most of the time with Xenora. We wandcred together about the mendows, or sat in the cabin to escape the almost intolerable heat. Always I loved her more, brimming as she was with humor and sympathy and love. And butterly I corsed the fate that was dramping us both to our

Even at the beginning, Sam's scientific achievements regarding the menace of the abyes were so abstress that ward was crammed with strange machinery, some of it hamming incessantly. Indeed, his apparently was tell!

of the earth! Sam had been signally unsuccessful in petting are scientific information from Xenora, for the simply reason that she had none to impart. But, from her geographical knowledge, he attempted to draw a map, pit of the Lord of Flame It seemed that there was a strip a score of miles in

the great lake we had seen. The pit of Xath seemed to crater Xenora located her "City of the Sleeners," or

Our boldest plan of action would have been to hurl the statchine, by means of the rocket tubes, into the abuss reasons he did not divulge, doubted the success of such a maneuver. He wished to keep up his rescurches, and possibly to visit the city of Lother. His apparatus told him that hodden forces were again stirring in the other. For ten hours we moved toward the north, making a

long detour to westward to keep within a valley, and slways trying to take advantage of such cover as was offered by the purple trees. The country was, for the most part, rolling and green, with the great flowering trees dotting the hills and plains but sparsely. The blazing radiation of the eternal crimson day was undiminished, but the temperature fell slightly with in-

Xenora and I were together at the cabin control-board. tower, with the fittle gun, ready for emergencies. When we had been moving for some ten hours, we mounted a us a thicker forest of the bright purple trees, offering

We had crossed the summit, and I had increased the speed to ten miles per hour in haste to reach the trees, in spite of Sam's fear that the operation of the motors at anything like full especity would create a disturbance

Suddenly I saw a strange thing skimming along over the bright forest before us-in our direction! It looked like a bright silver globe, meny feet in diameter! It floated a few hundred foet above the trees, drifting smoothly along like a bright metal balloon in a very swift

wind. There was no visible propulsive mechanism, I shouted a warning to Sam through the sneaking tube, to stand by his fittle gen.

of the Lord of Frene! They will light to death—they know not fear!"
As the ulter sphere drifted swiftly and silently down upon us, as though beens by an invisible wind, twice I

upon us, as though beens by an invasible wind, twice I caught a glumpic of a stender ray of purple fisme, that dated out of it and moved searchingly over the bare greensward below. And then a rich purple beam fell suddenly and intrusely upon the Omninosible! When that misry finger of purple light discovered us,

When that misty frager of purple light discovered us, I saw a strange vortex of pale green fire spring up about the globe and reach out in our direction. Suddenly I realized that this slip was of the same appearance as the weird thing that had destroyed our cottage? Small begar I thought, I that, torce of atomic distintigration were

I beard the rajied crashing of the smachine gart, as Sombagus to fire, and presently burnts of armola appeared about the glearning sphere. But to bit a redshirty small and rajiedly moving target even a mile saws is no necesicies of markomandaja. It drove rajiedly for the purple compared to the compared to the compared to the comtraction of the compared to the comtraction of the compared to the comsential confidence in the compared to the comtraction of the compared to the compared to the comtraction of the compared to the compared to the comtraction of the compared to the compared to the comtraction of the compared to the compared to the compared to the comtraction of the compared to the compared to the compared to the comtraction of the compared to the compared

switches and dash in the conting-tower, so be caule control it from where he stood. Virid blue electron finne quivered and flushed over the metal parts of the modeline. The flushing globe of mixer definted easiers, and the mixty votes of green five about us green more interact. A strange red globe who low ever the vegetals or stood in, and a soldrary purple free shortd bared inne crimmon library and the strange of the property of the control of the strange of the str

strange force was not acting upon us. I fill rat know, until it was all over, that Saris's weams tubes had set up a repulsive screen in the other, protecting us from the electrouit wortex!

Abruptly an intensely bright, klinding tougue of while time leget toward the silver thing from the gross platings intensely the silver thing from the gross platings in the circuit of the process of the Omnimotale! Sam had turned bose his electric are! The finare struck the

had turned loose his electric are! The flame struck the globe, impinging upon it file a jet of fire, converting it into a ball of supernal light! Then it fell! It planged toward the focust in a gleaning curve! The green vortex of the disintegrator ray

iteandescent shell enashed out of sight bryond the purple trees!

The Green Slaves

S AM snapped off the are no the silver ship fell, and the drussming of the generators stooped. For a little time the world was very still. Xnoon stood trong and silvent beside nor. As I turned toward her, I cought the shight perfuse of her clark bein; Indeed, the Green Girl was a boustful bring! The whop figurels het wore finded to conceal the detertable

Impulsively she readied her slender hard out to take mine. "You have won, Melvin Done" he soft vaoce said, "The ship of Mutron is tallen! We shall not be shaves of the Lend of Phane! We shall not die the violet duralt in the jet of Xuth?" "I hope not, my Xenen,"! T said, "I hope—" and I supped in a Bible confusion. I was not really emhermanch but I could not eo on. Really, taking to a

Abrustly she became conscious of my look, and turned

to face me, with a quick smile on her face. There was

excitement, and she sunted with gludness,

"It hope not, my Xenom," I said. "I hope....." and I stopped in a little confusion. I was not really embarrassed, but I could not go on. Really, talking to a princess like Xenora is quite a different thing from maling protestations of love to a being of one" dreams.

ing protestations of love to a being of one's dreams,
"What is it that you hope?" she said quickly, with an
impide smale.

Sam seved me by coming in from the turret, begrimed

Sam seven new yearing in rose a lawer eggent with the smoke of the little cannon. He was a weaterful man. He was still strong, erect, and confident, despite the lead of tell and hardship our adverture was gutting upon his seventy years. His white hair was custed, and he was cheerfully looking up his amient pipe, as eximly as if he were in his own kitchen in Plovids.

"Looks like the are did for 'em all right," he said brishly. "Suppose we get over and take a look. We might pick up something new."
"Very well." I assemted, and turned to start the mo-

"Very well," I assented, and terried to start the motors. I could not revise a gram at Xenora, who was still regarding one with a spoulative smile. She lengthed back at me; then was suddirily serious.

"Be careful! The Stepers of Mutron! They might be alive in the wreds! As four as they beenthe, the Lord

I started the generators, and the Omnimobile rolled heavily down across the green slope, and through the fringe of flaming purple trees. In a few mirrator we came upon the wreck of the silver car, a great tangle of twisted wreckage, half fused by the electricity, and bent and tom by the fall. It has in the files open spare,

of Flame rules them!"

with a great tree spintered and smoleng under it, and the ground about empurpled with fallen petals. The twisted menal plates gleaned brightly in the light of the searlet sky.

I stopped the Omnimohile, and we get out and ap-

of the débris. The globe must have been forty feet in disanter. We spent several minutes in gazing at it from different negles, and then Som and I clambed into the tangle of bent white plates and massive twinted girders. The machinery had been too completely destroyed for us to be sure just how it worked. But Som thought

us to be saire just now it wereas, but som comparing the the skell find carried tails of water, the grawdy of which had been negotived by the emanstains from tails of the same luminous gas which supported the roof of waters, hitsing the slop. From the nature of the first-means of electrical machinary we observed, it seemed that the horizontal propulsion was attained by the ion-instent and reputition of the helpin attorns in the sir-insten and reputition of the helpin attorns in the sir-

caught the highly perfuse of her dock high.

The appears that hid produced the anothe distinguished, explored to the control distinguished, explored to the control design. The value function the control has distinguished to exceed the desirable leaves of the right and hydroly fine. Her rich, red by the part of highly to the unconscious intensity of the presented rate.

The control rate, or the rich to the control rate of the rich rate of the red to the rich rate of the rich rat

people, monuments of the high estate that Lother had What would it metter to me if the eternal death come again and forever to the upper earth? What would it

get. If the roof of water were changed to ice it would only be more secure! The maiden and I could live out our lives in this strange land, without regard to the fate of the world. One of her matchless amiles or a note of her golden laughter, was worth more than all the Meanwhile. Som was immersed in his laboratory work. in the examination of the prism of blue metal, and in

his cursous per. The plant creature still grew with remarkable speed, and always showed most remerkable intelligence. It was always with Sam, flancing along above him on broad green wings, or walking awkwardly upon its thickening red tentucles. Som gazed at the flickering colors of the membranes about the head, with the fight of strange understanding in his eyes, making strange gestures with his hands. Just to what extent they could communicate. I never knew

It always went with him, when he went to hunt for its mose. It was a voracions cator, requiring a kill a day. it was not difficult to stalk them. As soon as it was strong enough, the plant creature learned to earry Sam's ride. Its extraordinary intelligence, or imitative instinct, purple wood, for we did not know hour soon whet would when it was flying with the weapon, and saw one of the

It showed a very real affection for Sam. Once, when they were out together, it saved his life. One of the turkers had suddenly charged him from behind, and the creature flow at it and attacked it made with its medeveloped claws. At the cost of considerable minor

injury to itself, it held the beast off until Sam could get in a shot. It always showed an odd delight at his caresses, and seemed to take a negaliar low in the many As I have said, it grew very quickly. At the time

we stooged in the wood, it was somewhat smaller then a hawk. Perhaps two months later (time was rather meaningless to us during that one happy period of our had grown so large that once, in an apparently playful mood, it was able to lift Som and fly with him on a circuit of a hundred yards, bringing him back to the mu-

three and setting him down very softly. Then its armound brown body was as large as a men, and the green wings were like sails That was near the cod-During all that period. Sam devoted much time to the

examination of that har of strangely light, bright blue metal. He felt that in it he might find a solution to the mystery of the Lord of Flame. I assisted him as much as I could. The metal was evidently an allow Analysis showed that it consisted largely of aluminum There was a trace of a heavy metal that we could not identify. And the ber was slightly, very slightly, radioactive-ocrhene, Sam thought, merely because it had

been exposed to intense radium emanations.

back. It was twisted and broken, and wisstover had been fastened upon his body had been torn away in the crash. And the corpse had upon its back the strange violet stains that had been upon Xenora when we found Presently Sam found another body. It had been half

it, and the thing the frame was to hold was still clameed to it! The body bore, fastened to the back with those cruel metal clamps, a six-sided bar of blue metal! It was six inches in dismeter and two feet lour!

"This must be the thing Xenora calls a 'fire crystal.' " Sam said, "though I don't see any fire about it. It's

"Do you suppose there is machinery in the bar, that generates forces or currents that move the man about like a puppet?"

"Might be. I don't know. The metal thing may be a receiver for the occult force set up in the ether by the Lord of Plame-hypnotism by radio, perhaps, or some-

thing of the kind." "Anyhow, as you said, it's danned queer, like everything else we've found here-excepting Xenora." "Suppose we take the thing along, and open it up

when we have time?" He produced a pair of pliers, and we twisted the odd It was oddly light to be metal, though it must have been an irksome burden to the one on which it was fastened.

the Lunaks, as she called the flying things, quite frequently destroyed the ships of Mutron, and that the fate

The Blue Prism OR perhaps thirty miles we drove the great ma-

thing through the brillians forest, southward down a broad valley. At last we stopped in a little grove with the great purple trees closing in all about it. It was a penceful spot, weardly beoutiful, and it accused secure enough. The unceasing wind was not so hot beneath the great trees, and they shielded us from the burn-

ing, crimson glare of the sky The Omnamobile seemed safely hidden beneath the meases of purple bloom; and whenever we were tired walls. Frankly, I hoped that our stay there would be a long one. I fried to forget the menace that hung over

Our life there was simple, and, for my part, I was supremely happy. Or not quite supremely, for I could to fate, however. With such a girl as Xenore, a man might be supremely happy anywhere. We tramped together about the grove, gathered the tiny, bright-red

#### AMAZING STORIES

The density of the bar was only half that of aluminum. For some time we could not understand that, Careful examination showed no break in the surface; and presently we sawed it in two, and then in many pieces, searching for the muchinery that we halfexpected to find. But, as far as we could determine, the

bar was absolutely homogeneous. Then Sam thought of examining it under the microscore. He found that it was full of microscopic bub-

bles hollow places! By later experiment, we found that the metal was just a spoore of the strange allow. filled with riny bubbles of helium gas, under considerable pressure. Sam presently formulated the theory that the alloy, when formed, had contained considerable amounts of radium compounds; and that the alpha particles, or charred belium atoms, thrown off by the disintegration of the radium, while the metal was in a semi-plastic

But it was not until later-much later-that we got the true meaning of it-that we understood the in-So the days went by-happy, carefree days for me, I knew real joy for the first time in my life. Since wouth I had known the Green Girl in my fancy. I had

longed to find her, with a restless, hopeless longing that had left me discontented and unbappy, whatever my surroundings. Now, at last, she was really mine. I loved her with a singleness and intensity of affection that turned all my emotion in one direction, so I felt little One day, when we set like children together on a cook moss-covered rock beneath a great fragment purple trot,

in the light of the scarlet sky. I told her quite simply that I loved her-that I had known her always, and "The white chieftain of my dreams," she whitecred

"for what long years I have wished for you to come and tell me that? There was no need for further words between us. It and then I am afraid we both floshed a little before the smile of tender understanding on Sam's lean face.

#### The Trestedy in the Purele Wood UR woodland life was happy. We were quite

unconscious of the events that were shaping themselves to being gudden catastrooke. We volved. The crisis came with little enough warning. On the last day of our loyous existence there (we had fallen into the habit of making an arbitrary division our breakfast. I remember that we had pancakes, with mode sirup. Then, since "Alexander" was flattering

As the old scientist walked off through the purple trees, puffing steadily on the old pipe in his mouth, fundly watching the huge, winged beast that flew along

stood in any great danger. The winged creature that more than a match for a couple of hone! Certainly it my old remances of science, and walked a quarter of a mile up the limpid stream to a favorice resort of ours. We laurhed and taked much by the way, and cathered a great bunch of the little red blooms. I was teaching her

above him with his gun, little did I dream of the tragedy

to read-at least that was our nominal husiness, though

The living, wonderful mystery of her, her sheer perfection, the life and love that sparkled in her eyes, all We sat together on our motor stone seat, reading a little, and laughing and talking much, until we forgot all except each other. When I looked at my watch, I found that we had been there many hours. We got up and started back to the methine, speculating light-heartedly on what Sam would have ready for dinner

We shouted carefree greetings as we approached the marking, and received no reply. We got to the deck, and descended to the cabin in vague alarm, but saw no sign of the old scientist. We hoped that he had only been delayed. I blew the stren several times, and instead to hear a signal from his gun. But when the ethoes of the blast had ded away from the silent purple wood, all was I climbed out on the deck to listen. Not a sound dis-

turbed the stillness, save the faint rustle of the successing wind in the purple trees above, and the crystal tinkle of the fittle attenue. Green mendows and bracht trees lay steaming beneath the hot red sky-quiet as death. The Presently Xenora error up by me and ran her strong

cool arm through mine. Her violet eves were solemn, now; and her fair face was clouded with anxiety. She "I am afraid for him," she whispered. "Many things might have happened. The beasts he hunted may have

found him-the shins of the Lord of Flame travel even to the waters of the lower sea to do battle with the Lureks. And there is another danger of the wood-that

Her words were not particularly encouraging, and I riffe, my pistol, and an emergency medicine kit. Xenora insisted on going along, and I could do nothing but assent mean woodsmen. In fact, when it came to the matter of following the trail over the low green plants, she proved

We left at once. The trail led us east for a mile, purallel to the stream, in the cover of the purple trees. Then it turned north across an open mendow; and there Xenora picked up the apper of one of the great skeths. which Sem had stalked. It led on to a group of three giant purple trees, and there we found two fired estricites to him with its petal-like membrane, he got his rifle and from Sam's rifle. Three hundred yards farther on, in an

open meadow, we found the kill. Alexander had evidently had his fill from it; and man by were the dring embers of a fire, and the charred green

stick on which Sam had cooked a stock for himself. ground around the fire was somewhat torn un. green plants had been uprooted and crushed. And there on the ground I found another eartridge from the rifle, Presently Xenora picked up a trail leading toward a clump of the flowering trees to the north. We followed it hastily, silent with fearful anticipations. Twice we

life-fluid of the plant creatures. Had Sam's net heen Then we came to the pitiful end of the trail.

struggled there. There were great solotches of the green fluid, and a fateful stain-evidently of human blood Sam's bettered pith beingt we found on the ground there, and six fired shells-silent tolens of the harried From the spot no trail led away. There was no evi-

dence to show whether the battle had ended in death or in capture, nor anything to show what manner of being the unknown assailant had been. For a long time we stood there, gazing at the spot in lifeless grief and despair, apathetically singering the helmet and shells, valuly

'It is no use to go farther," Xenora said at last. "It is the unknown menace of the purple wood. Many a man

CHAPTER XXVI

#### The Last City of Looker

DRESENTLY we turned and trudged wearily back should be no more. A choking lump rose in my throat.

But I still had Xenora. As we walked, I put my arms around her, protectingly, in the grim determination that this strange world should not rob me also of the dream girl for whom I had searched two works. My love of ber kept me from utter despair, but even then I knew

I would have to find what it was that had taken Samto identify the thing that Xenora called so vaguely "the monsters, or was it something even more alien and terrible? And I thought more seriously of the danger to the earth, that I had been trying so vainly to forget Sam's responsibility had fallen on my shoulders. I must see what I could do

With the wonderful intuitive knowledge of one another's thoughts that Xenora and I have always had, she anything. Softly, she took my fingers in her hand, and locked at me with deep sympathy in her eyes. "I know, Melvin, what you think. And it is right. It is hard, so soon after you have come here to find mo-

but it must be. I can guide you to the city of my people. if you would go there!"

"You are very brave and true, my princess! "I come from Lothar! If you feel that your duty bids

you. But the Lord of Flame is mighty-no man can fight him! He has power over all!" "Except our love," I said. I stopped, and took her in my arms, and pressed her red warm lips against my own. In the whole world, she was all that was mine. She clerg to me fiercely, as if the terrible power of the pit of flames At last we went on, and presently we reached the Omni-

mobile, hidden in the purple grove. In Sam's absence, it looked very cheerless and lonely. We got abound and made ready for departure. I tuned up the motors, and examined the electric weapons, and cleaned and loaded the golley and fixed a lunch. We ate quickly, under the

silent pall of hitter tragedy, thinking of the smiltne old man that should have been with us Then we climbed into the consing-tower, and I switched on the engines. The humming of the renerators rose again, and the great machine lumbered clumsills out of the little wood, where it had been hidden for so

many happy days. For many hours we held a northwestward course over the green plateaus and through the purple woodlands, with the light of the crimeet day shining through the ports.

Xenora stood by me and chose the route. For the last few miles we crept along just east of a high, bare ridge of rocks. At last she bade me stop the machine in a clume of trees at the foot of the hill. The last city of Lother, she said, by but a saile beyond I took my biocedure and a rifle, and we left the machine and clambered up a half mile to the top of the

ridge. The girl led the way, slipping contionaly through the rocks. At last she threw herself down behind a fringe of the low green plants, and motioned use to crawl "Look," she whispered, "and see all that is left of Lother, the proud kingdom of my fathers, under the curse of the Lord of Flame!"

Indeed it was a scene of ruined grandeur that met my eyes. A little valley, perhaps two miles wide, lay beyond the ridge on which we were concealed. On the low hill sive runed wall. Back of it rose the crumbling desolate ruins of great towers and palaces of stone, covered with skull of a dead eiviliantion!

"It was in those fallen palaces of my fathers," Xenora whispered again, "that I found the strange muchine that brought me the first dream of you." I put up the plasses and made out the actual city outside the wall. Certainly Lothar had fullen since its days

of radio. There was a mere straggling village of rude sal ruined metropolis. The few hundred buildings were est creeping up to reclaim it forever. I made out a few children playing about the trees, and a docto ill-clad men working in the clearings. A few wreaths of smoke And hanging silent and memoring in the air above the

village was the visible symbol of the alien power that had silver boll-a ship like the one we had fought-hung motionless above the buts, with a quick purple beam from it

For a leng time we lay there watching that desclate, pitiful scene, and then Xenzea bouched my arms, and we alloped back down the ridge. She was ribest, with grief and depair in her eyes. "See!" she whispered at last, "See! Lothur is dead!

"See!" she whispered at list. "See! Lother is dead!
The Lord of Fisher has killed it! The men are poor
strengtling weechets; they could do nothing even it the
flame were pone! My father was the lag king of Lother. His was a troubled reign, and he has been dead
many hundred sleeps?"

"Don't grieve so, my princes," I aid. "There are still vast cities above the waters, where men are powerful and wise, and where the sky is blue and a white sun skines, and where there is a domain many times larger than all this shysa!"

than all this abyou?

"Can we go there—ever?" she questioned cagetly.

"No. We can never leave this land, even if the Lord
of Plane is idelide. The medicine cannot beak through
the roof of water from below. And the power of the
Lord of Plane is coming to careth. Even now it may be
a dead and frozen world."

And droseing in the allence of dail descript, we reached

the machine, and drove quickly for the protection of the deeper wood.

CHAPTER XXVII

# Mutron of the Sleepers

The half a doesn hours we hundred eastweat through the forcat. We sallowed through the forcat and related through the forcat and related through the hours and related over broad green mendows slight with nerities though and broke through jungles bright with pargle thous. At last we emerged on a narrow upload, with the great slike below it. The black these of water, tinged with the red light of the black these of water, tinged with the red light of the black these of water, tinged with the red light of the black these of water tinged with the red light of the black these of water tinged with the red light of the black the red water tinged with the red light of the black the red water tinged water tinged to be a support to the red water tinged to be a support to the red water tinged water tinged to be a support to the red water tinged to be a support to the red water tinged to be a support to the red water tinged to be a support to the red water tinged to be a support to the red water tinged to be a support to the red water tinged to be a support to the red water tinged tinged

Nath.
We stopped the muchine, and looked for a long time
across the black lake to the north, and over the low cliffs
to the ruby mist beyond, alive with the dancing violet
lights.

to the ruby naist beyond, after with the chancing worst lights.

Then I turned to the rare gift beside me, who was weaching me with tears brimming in her wislet eyes. The nater grief, the black despair on her face half broke my readmine. I felt doubtful, weak untert subscrable, with

pain stabling at my heart like a thin sood blade.

"It is right. You must go," she whispered bravely.

I took her in my arms again. How wonderful and true she west Struggling so bravely to hold back her tensal.

More precious than ever in the final parting! A single

Knowledge that it would soon be cuted?

The control of the control

might return a victor from the mod attack on the Lord of Flame. For I had determined to enter the abyes. I know that was wher Sam would have me do, rather than lose time in an attempt to learn his fatt. Xenora, was cape to east her let with mine, but I would not hear of it. A chekker there was in my throat as I stawered alloard the Chrimoslair, and closed the matches with a trenshing hand. I gave a finite barrievaking giantee to the aptendig girl, unsjectic and exect, even in her pain, assuring deedsets and show by the tout. Then I runnel assuring deedsets and show by the tout. Then I runnel I lade the runk map that Sam had drawn from Kencrett knowledger, I takwed the pix of the Lord of Flams to be just morth of the lake, apparated from it only by a surprisingly asserted will of dirth which, the girl and, but leen a lightway of her fathers, though it was now many the complete of the state of the pix of the surprisingly asserted to the state of the pix of the but leen a lightway of her fathers, though it was now many than the surprising the surprising the state of the surprisingly asserted to the surprising the surprising the surpr

Steady I down northward, in a due of fewered pair, the mean accuming when I had beet upon, is fer search in the search of the search of the search of the states of the pupils trees. At lot I careped on the older of a great places, covered with the grown westtion, many anties arross. On the search of west, I controlled the search of the port of the search of the west lates of the search of the search of the west lates of the search of the search of the west lates of the search of the

On the east side of that plateau, there was—rathing! Beyond, by the pit of Xath, with the faint ruby rist above it, filled as always with the wavering reflections of violate flames. And a half dozen mules before me, on the birth do that pit, stood—Matteet!

A strange some it was! A day of allow metally Dontes and towers and pyramids of angers withmenst Vast interedible meditions! Huge and oddly wrought structures! Teams cubes and optimizer and conest 1 All of gleaning silver! The city shore with a cold light. It was as words, as unsentily, as a dead city of the moon! It had the allent, ghostly pleam of morellight! It was wroted in moster with in frome face!

wrapped in mystery, clod in 1702th 1612? And the city was not idle. Those yeast amazing machines were moving. Sliver globe-ohlps were drifting in silver laste show it! And over and asout, one of them dropped over the rim, into the pit of Nath, or one floated unexpectably up on of the tabys!

As I stood there in the Omnimolilis, in the shadow of the hair of the purple trees, my beast gave side again with doubt. What, indeed, could I, with my puny machine, do against the great science that that city of unysterp represented? The men of one core mighty expriwers more alsees to it! What hope was there for me? Was not the human race, files the bison or the doles, about

But there would be no turning back. I saw to it that all the mashinery was in order, and returned to the conzing-tower. Before me was the instrument board that of controlled the electric are and the rocket tubes, as well as the mashinery.

Commonly the cuterie are sing the rouse ranes, in we as a few machinery. I started the hydrodyne patentiers at their full expacty, and then threw the works. As the half million been ground that the started the started superleased steam roused out of the market, condensing inthinis runking others. The terrolic feere of the jets uproused the pumple trees, and the machine without the military laws thresh to the elif. With a steam military laws a truth of the elif. With a steam

terrible.

that swiftly increased to many hundreds of miles per hour. I burnled the broad plain, and over the phostly white edge of silver—and such the abyes! The platton ended abruptly so if out off with a knife. The crater fell sheer away before me, stretching to the visit blue cliffs in the north, and to the line of living pur-

was these delists in the north, and to the line of living purple and green that marked the beginning of the customer forests. Only a thin green line separated the shyse from the lake on the south, which, in the reflected light of the ascirlet sky, horribly suggested a sea of blood, ready to flow into the pit.

Undoubtedly the creter was of volcanic origin. I could not determine its depth, nor the state of its floor—it was filled with the thick crimeno mist. The wavering tongues of violet fire still dickered through it, throbbing streamers, like the reflection of firm below—birthing un-

strangely, like the reflection of fires below—hinting unpleasantly of alter life.

As the rich green plain vanished beneath me, and I

speed high over that busy strange white city and iroo the base of the alyrs, a nod feeling of the wildness and the uniformiliar terror of the place stell over me again. I was very thankful for the invention of Sant's, for the thin helbort of wire giouse above my head? Suddenly a great twinting bar of green fire weithed up, like a serpent's head, from the most of flames. It

averag and coiled and twisted through the rooy mists with a slow, deliberate motion, like an incredible regifte of flester, raising its band, looking, searching? Despite the belinet, great fear swept toy brain like a lose flesse! CHAPTER XXVIII

# The Flamins Brain

M IGHTY winds whipped about sie. The rourse jets of steam drove, the throbbing mechine on over the rous unies, and over the fishering violet facuse. And I fell-dropped into the hidden pit. Vividly I saw the great writing head of green rising

time motion that told me that its eyes were already upon me! I was certain that it was a thring, scattered entity, that it was intelligent! Could my weapons avail against it?

I fell through the rosy clouds. The green and purple rise of the abyse grew wayer, and the blue chilfs in the north assumed a misty indistinctions. The red mist above until it seemed that I was awimuting in a fog of crision fire.

shore until it seemed that I was swimming in a fog of crisseen fere. And all the while the height beautiful face of Xeners was before use. The light of her char violet eyes drow the strangenous and the fear from my mind, leaving only

any pain at leaving her. I drove the machine mechanicskily, lost in a dose of grief.

For ages, it recent, I shot forward through the hors.

At hat I made out a bare floor of sand and rods, pitche
with dreather crasers. It was a good thousand feet heleave, and still dim in the hare. I posend the two rubes,
and the forem of my full was shooted. In three minutes
more, the nutrities restruct the earth, box first. It tyes or
want hole in the sand, and relied over twice, coming to
roat on its side. Formutacly it had here thirt in with.

reat on its side. Fortunately it had been built to withstand such knocks; fortunately, too, I was strapped in my emissioned seat.

I get the mooters started and worked the machine to an upright position. The craser floor was visible for half

then I saw, for before me, a bright violet glean
pur brough the crimem sind. Indistinctly I saw a broad
year shall of justing far file from it, to lose food in
one crimem sky! That income violet gate, from which
the the filebring reflections come, and from which the green
to beam reached up. I leave, must be the sens of the Lord of
Filme!
Outd

I started the engines once more, and the machine rolled

waste of hard sand and twisted black volcanic rocks,

Further vision was cut off by the rosy mist that hung

mightly forward over the ton most another terms unjustify forward over the ton most and are greater chargerof metal topes store, foreign global with a greater the altern memore. It rounds over here sandy flux, remained great to modern, enabled into pits, remained through exactes! Then, modernly, that torrible green flume fund out toward met I leaves that I had been discovered! Like a lance of green flame for the day of the contract of the con

I set the leading mechanism of the little gam to find high explosive, and put it in action, lumling shells in the direction of their whole light. And still I does switch the mist about by the large visit is switch to the mist about but the deep visit hight still glowed. I turned on the reserve power units, and the machine vibrated from their brighting dream. I three another works, and the deep pury of the glaste transformers filled works, and the deep pury of the glaste transformers filled

awaren, and one neep pury of the gasar transformers shad the ship. The mighty white rongue of the electric are reached out ahead of me!

And the Commiscibile plunged on!

Two of the silver spheres—the ships of Mutron—ap-

peared before me, with the green verticers of the atomic disintegration springing up about them. The great are brought them down in incondescent wreckage almost as soon as they came in view!

The violet must grew brighter, more distinct. I knew the shells were burseling near it, and that the are would reach it soon. The faithful old weaking lushbered rapidly on over the wild and twisted rocky desert—a waste as terrible as the mountains of the mount.

In fact, that craire-pitted floor bore a curious resemblance to the typical lunar lundscape, and the forces that e produced them must have been similar.

Then the most cleared, and I saw the form of the rainer

produced them must have been similar.

Then the must cleared, and I saw the form of the thing t that gave the violet light! It was scores of feet think, and hundreds tall! It was a wast amouth extincte or violet fire! It shore like motal, which was white hat any seen through violet gisse! The color of it may and fidele ered on the surface! Violet sheets and bends envised and fished upon it. and violet three found was remove it.

and y little tengens. The thing was systedly mooth and cylindrood, five hundred feet in hopkins. Thousand and cylindrood, five hundred feet in hopkins. Thousand Still the Continobile humbered irresistibly conward, but the continobile humbered irresistibly conward, but the continobile humbered irresistibly conward to still the continobile humbered irresistibly conward to the still the continobile humbered irresistibly conward to the continobile humbered in the continobile hu

ce a toward it used in sweet of the angel of death!

g to I saw a chaster of curring pleaning machine about the
withbase of the great cylinder. One of my shells must have
d in struck them, for they suddenly scenned to collepse and
dissolve in a cloud of white smoke.

Alveyldy a high, terrible bar of green fire rece from
that the ton of the cylinder minuted like an extension of ke-

it was like a beam of green light from a vast searchlight. But it bent and twisted, as if it were alive! It moved like a snake, writhed toward me! A great pit in the rocky desert suddenly appeared be-

fore me-a hundred-foot obsom! I made a wild attempt to swing the machine around it. But, busy with the arc, the generators, and the gun, I had seen it too late. The brink loomed before me! Desperately I set the brakes. The muchine naused ferkily, hesitated, then leaped over the rim! For a breathless second it fell down the sheer

crashed heavily upon the recks! I was torn from my seat and flung cruelly against the side of the coming tower! My helmet was knocked off!

It heat down on my brain like a rain of horror! It throbbed with an archaic rhythm, stirring stronge emotions that coverried my reason and voltion! Terror

sweet about me like a fierce wind from a bot descrit of death, nicking up my soul and sweeping it away to a fate I structed with it terribly, with all my will. But it beat down my secble barriers like a resistless tide.

burned away my will like a hot flame in my beain! That horror came over me in a vast, overwhelming wave! It seized my body! My hand moved unwillingly. and cut off the current of the great are! And then my body was struggling to its feet, opening the munhole, and clambering out of the machine. But still the thing did not have see! I was still an independent entity, that

sat apart and watched. I knew that I had succumbed to the hypnotic control of the alien nower that dwelt in that yest metal cylinder. I was another of the slaves of the Lord of Flame-of the

Sleepers of Mutron!

# CHAPTER XXIX Xenora's Sacrifice WAS moved out of the machine like an automator

by the terrible force that controlled me. My body was no longer my own! It was swept along as if by a mishey wind. That force of horror roared and throbbed in my brain. Red flames of fear flickered before my eyes. I was sick and faint with terror. But my body did not collapse-it was releatlessly moved by

that terrible force from the violet cylinder. I was uttorly helpless-I felt the hopeless horror of one chained Suddenly I wished flerrely for death, for only death

could bring me freedom from the horror that sweet in a throbbing torrent through my beain. But even death was For a moment that power left me standing on the side of the overturned machine. The Omnimobile lay on the sandy floor of the crater, which may have been a hundred fect in depth and as many yards across. Against the red sky, above the black diffs of the pit's farther rim, towered the violet metal cylinder-the flaming metal

brain whose hypnotic control ruled my body. For a moment I was left standing there, and then my body was springing down and running across the rockstrown sand toward the cliffs. It ran like a machinebeyond my control! In voin I tried even to stumble and

fall! In a few moments it mached the rim. It clam bered wildly up. I know that in my normal self I could never have surmounted that shoer wall. But the telepathic force from the flaming brain seemed to give my limbs superluman strength! Soon I was at the top,

with bleeding hands and tattered clothing! And my body ran on toward the violet monostyle! It was two hundred yards away-a Titanic smooth upright cylinder of metal, the polished surface crawling and flowing with violet flame, with the great incredible serpent-like beam of green rising from the top It was astounding-in the strangeness of its aspect,

and in its inexplicable suggestion of alten intelligence! But how could there be intelligence in metal? Two of the vast silver soheres were stooged on the

ground below the cylinder, oddly dwarfed by its vast height. And about them were men! They were the green slaves-the Sleepers of Mutran! Their bodies were naked but for tattered scrape of cloth. Fastened upon their backs by the cruck metal clamps, they bore the

But those bars of metal were not blue Blot the one we had taken from the dead man! They shone with the same mysterious violet radiance as the Titanic monostyle. They were parts of it-skin to it!

The men moved like sleepers, or like machines, as I felt that I was snoving-as if their wills were dead! They toiled in tireless bosts, without confusion. Many were earrying burdens. And it seemed that some were polishing the surface of the cylinder, or applying some huminous substance to it. Near the ground they were

ounte plainly visible, clinging to its surface like flars, and tolling furiously. Higher up on the colossal cylinder they were but dancing black specks within the violet flame! The ground about was pitted with shell holes from my bombardment, and at one side I saw the twisted wreck of the great machine I had struck. It is possible that

peived the fire of the hirvest out in Christendon with yards of that wast shinung column of metal. Then the force of fear that had sessed my body permitted it to stop, and I stood spill. That awful twisting beam of

even flame reached out of the top of the thing, and bent down over me! It touched me! I felt tiny whip-like fingers of it feeling-exploring my body! The green radiance grew denser about me It embrouded me in a fee of green light-so minfulls

intense, hinding and terrible, that I tried to shut my eves against it. But that horsor held them open! And that even fire came into my body, and into me

brain. It was easer, insistent, questioning-and so horrible that my being rocked with pain It questioned; it namions of the Omermobile, and of the world we had left above. I structled against it, fiercely, terribly, until I felt my limbs chilling with the sweat of the conflict.

It took my mind as it had taken my body! It best about my brain like a vast storm; it penetrated my being in a flood of green fire! My brain recied, was swept by an avalanche of awful power! I tank at hat into merciful oblivion that was the counterpart of the death I

At last, when I was vaguely conscious again, I had a curious feeling of mental exhaustion. I felt as if I had by that power. It seemed as if the green light had swept the contents from my brain, had searched all

As I awoke, bodily sensation returned, and I felt someone lifting me sently from the bare earth men which that had controlled them was, for the moment, relaxed. joy, and then in utter despair. Xenora-the Green Girl-was lifting my head. There was anxiety and care in her violet eyes, and unatterable fatigue was shown in

"Oh, Xenora, my dream girl, why did you come? tested in bitter despair as the raised me in her arms and "I felt you battle with the Lord of Flame. I felt

it conquer you. So I left the camp, to come." "And how, in all wonders, did you get into this cit.

"My chieftain, it is not so soon! For three sleeps I have come through the forests and rocks, without stopping, while you lay still in the power of the Flome!" But why-why-come to throw away weer life..."

that shuts out the horror. I give it to you and you can go on with your battle against the Flame!-No, you can pewer connuer the Figure! But fly! Go back to wear

Even then I felt the horror awakening again, felt that quick motion, before I could prevent her. Xenera had whipped the electro-screen belinet from her head and

"Fly," size witispered flercely. "The Steepers of Mutron! And think not of me! Fly! Even from me!" The horror relaxed, and I collapsed in a daze of relief. after her, calling for her to take back the precious

Suddenly she sthooed. A convulsion ran through her frame. She turned, with her face a mask of lived horror. She was in the power of the Plante! She was a Sleeper! She bent, seized a rock, and hurled it at my head with superhuman strength. I dodged and it hurtled

past my ear. She sprang at me like an animal, drawing I turned and ran wildly, as a score of the Sleeners came running. I passed close by that violet metal mon-

out for me. I ran desperately toward the east! I heard I felt the awful green flame writhing above me, but even

I ran on and on, through eternities of heart-breaking effort. At last I stopped exhausted, with pounding temples and bursting lungs, to look behind me. The faming brum was but a dell violet glow against the red sky. A desolate waste of bare regged rocks and great round eraters lay about me beneath the crimon mist. All was client! The sounds of pursuit were gone?

"The Nitrate Plantation"

CHOULD I go on, or return and try to save Xenora. as she had record me? That question throbbed in my beain. The answer would have been easy enough if I had had her alone to consider. I might cheerfully have surrendered myself to that dreaded power to save her-say man would have done as much! But what of the menace to the earth? Should I glue up the struggle

For a long time I stood there on the rim of a strange crater, lost in indecision. At last my sense of duty to menlend was victor. I set off wearily toward the cast again. The Omnimobile was so near the flaming beam that I dared not attempt to reach it, even if I had been confident of finding it. And upon consideration, I was sure that if the machine was left as it was, it would be only as a trap for me.

A sorry hope, indeed, was I for victory in the struggle with that wast alien power for the safety of earth? A man alone, ragged, without even a pocket-knife, lost in the wilderness of a strange world, and nossessing only

What fully, indeed, for one in such circumstances to pit himself against such a science! But that seemed the only hope for victory. With Sam in my place, the ogg-

in the wilderness! For many hours I struggled toward the east-away from the violet glow-over the desert of rocks and craters, through the ruby mist. And I came unexpectedly upon an explanation for the origin of the crimson hase. Thin clouds of red luminous gas were hissing from some of the croters or funaroles-escaping from the radium deposits in the core of the earth, to float up and anamout the radioactive cloud that held no the

I was half dead with weariness when I reached the mile-high cliffs at the crater's rim, and half imane with grief for Xenora, and with anary doubt of my wisdom in deserting her. I have little memory of how I got up that will of rocks. I remember climbing until I was worn out, of toding upward with bleeding hands and feet, of fighting on when I was duzy for want of food and water, of struggling up when my body screamed in pain for me to surrender and drop to merciful oblivior in the abyas! I remember slooping many times on ledges

I climbed out upon the flat plateau to the east of the abyss, a strange wilderness of green plains and purple trees, but infinitely welcome after the tortures through which I had been. I stumbled across the meadows until I found a little stream. Eagerly I wet my parched mouth, and presently I slaked my thirst, and are a few

of the date-like fruits of the flowering trees. And then For a period of many months thereafter I led a strange wild life-the life of a beast or a sayage. It now seems to me that I must have been usore than half was fully recovered, I came upon a great lump of native cooper. With hammer and anvil of stone I set out to shape some tooks of it. First I made a knife, and then After several weary efforts, I achieved a fire by friction, and feasted upon reasted meat.

ing brain of metal, only to reject each upon consideration. As I had hurtled through the air above the pit, in my ill-starred attack in the Omnimobile, I had been much impressed by the narrowness of the bridge of cliffs between the great lake and the abyes. Now it occurred to lake in to flood the Lord of Flame.

With that in mind, I made an expedition to the inthmus, armed with copper pick and spade. I found that my eyes had curiously decrived me, freen the air. The land bridge was a wall of rock nowhere less than a hundred feet high and four hundred thick, covered with a rank growth of jungle. Along it, even as Xenora had said, was a ruined road. Here and there a crumbling stone monument rose from the jurgle like a bleached

There was no hope of digging a canal. A hundred men, in ten years, might have been able to cut a tunnel plosives! Natroglycerine! That started me on a new ine of thought. I had once made chemistry a hobby. It was not impossible. For Som, it would have been child's play. But, alas! there was no help from my old friend? I set to work at once. For many months I labored The task was a tremendous one. The first necessity was an adequate supply of nitrates. I was not fortunate enough to discover a natural deposit, as heroes of fiction usually are; so I set out to make a "nitrate plantation" such as is used for the manufacture of metratts in a primitive way. I dug a great shallow pit, layers of wood ashes obtained by burning the purple trees, and everything I could pick up in the way of nitrogenous animal and vegetable refuse. At last it was

filled and wet down with water from my clay-hed. I had nothing to do but wait until the nitrogen products simm boses in the wood ashes. Then I fell to the mining of iron pyrites, and to the huiding of a former or which I could here my notteny apparatus. After many disheartening failures I was

able to set up apparatus that I thought would suffee for the manufacture of my acids. I burned rude jazz, glazed My memory of all that time is a dim dream of terror, Many times for long hours I stood on the brisk, goeing

determined to give it all up and to seek her. But always I went back to my mad task, telling in a date of grief Before I did anything more in the way of manufacture, I paid another visit to the isthmus, and selected weeks in clearing and colorging it, usof I had ready a chamber doep in the heart of the barrier, below the level of the lake. During all that time I Eved upon the little fruits and

upon the flesh of the stories I killed. I carefully saved from wood ashes, and removed the sean by "salting down" with evaporated brine from a salt spring. I collected and stored the glycerine until I had many gallons. At last, judging that my "nitrate plantation" had had time to serve its purpose, I due it up, leached the needuct, and crystallized the saltneter by evaporation in

earthen pots. The yield was satisfactory in quantity and fair in quality, but it had cost fearful effort. Then I set about the manufacture of autoburic acid by roasting the iron pyrites with nitrate in my crude

That took many days, and the next step was making pieric acid by boiling saleneter in sulphuric acid and condensing the fumes At last, when I had the three necessary chemicalsglycerine, and nitric and sulphuric scids-I set out to

transport them separately to my mine, to avoid the hazard of the transportation of the finished product. That, again, was a hearthreaking task, for I had materials enough to make several hundred owarts of nitroglycerine, and the distance was half a dozen miles. But ragged, ill-kept savage that I was, I had collected

on the cliffs above my shaft the materials for the manufacture of a good quantity of high explosive. For one

## CHAPTER XXXI The Mine on the Brink

T LAST, in haste and fear and trembling, I began A into vate of water cooled by evaporation, under a rude shed to cut off the fierce heat of the red sky, Even with all my precoutions to prevent a premature heart of the cliffs. I meant to die in the final explosion, but I was afraid the stuff would go off before it was in place

But finally I got the last of the rough lars into position. Then I closed the mouth of the chamber with rocks and rubbish, to be sure that the full force of the explosion would be exerted upon the chill. I lit the fuse I had prepared-a tall eardle of the sloth's fat, by the jars of nitroglyceriae,

in vair, a few hours more would see a raging torrent of water rushing into the pit. At last I indged my task completed. I walked a few yards north to the rim. I stood on the brusk of that sheer promien, and stand down into the rosy must, alight, as always, with the wavering, reflected fires of the metal brain. I made no attempt to get beyond the range of the explosion. Hope was dead. Life meant no more to me. I was ready to be swept into the abyes on the crest of the wave that,

For a long time I stood there waiting, lost in dreams

THE GREEN GIRL



tone, carried weapons . . . And then a flight of them storest deconward again, and I sow Sem, mounted on one . . .

of Xenora. I had no doubt that she was dead. My loud and bitterly. A stronge figure I must have been wild and referent red and burned from ex-

And then I heard a sound that brought me into silent and curning alertness! I sprang to the mouth of my shaft and crouched like a savage with any forward where I could see, and by tense and silent, a against whatever might find it. At last a human figure clembered up over the brink, a Sleeper of Mutrou! The emaciated form was been beneath the weight of the bar of gleaming violet metal

rags. The firsh was bleeding from the fearful climb. sen, or of a walking corper, galvanized by some weird power, that terrible figure got deliberately to its feet. The bloody hands rused a long, glettering weapon of silver metal. And it plodded dully, lifelessly, toward

me. And then a hourse, wild cry echoed through the ailent innele-my own screem The Siccoer was Xenoral With her old intribon of my thoughts, she had been able to penetrate my helmet! Through her, the Lord of Flame had read my thoughts of victory! She had

been sent to prevent the mine's explosion, to snuff out If she heard my scream, she paid no heed. She walked on toward are, with the same weary, mechanical suit. There was no light, no life in her eyes. They stared straight shead, dully, unseeing! And the strange silver tube was held ready in her hand. She was more like a moving coroso-a dead avenger-than a living person! A mad storm of desires arose in my brain. How I

to minister to its hurts, to bave the Green Girl for my own again? It took all my will to hold me in my hiding place. But this was not Xenoral It was a Sleeper of Mutron, a slave of the Lord of Flame! It was a fearful choice before me! But my resolution beld! I would carry on if it tore out my heart. With

a burning pain in my breast, I ran my fingers over the sagged copper blade, and tensed my muscles for a Perhaps, after all, we would be better dead, My modness was gone, but cold, grim determination

sleeping figure of the Green Girl was but a dozen vands from me, and I raised my ragged blade! Theo-a shadow upon the crimum sky! A whisner that srew to a mighty roar! The best of many wines? 'A strange and ringing cry from the air above! A shouted, imperative, strange-toned command! Sam's

well-remembered voice! A rushing sworp of wast green wines before my eyes! A tempest of wind as they hear the air! Xenora snatched up and out of my sight by

I was petrified in incredulous apparement. It seemed impossible that Sam should be alive. Yet, there had been no definite peoof of his death. And, I thought, it must have been Alexander that carried him, and that had

In a moment I had aroused myself, and dashed out of my biding place beneath the purple trees. It was an amount sight that goet my eyes. There were numberless thousands of the flying plants on the wing above! The red sky was flecked with their green wings! In a strange semblance to military order they flew. His feets of battle-planes. In scores and hundreds they dived and ried weapons-wast clubs, or huge metal-tipped spears, I saw Sam, mounted on one that must have been Alexander-though the thines all looked allor to me. He was evidently controlling the whole soundron with his shouts and gretures. The old scientist still seemed strong and Then I saw Xenora. She was still in the clutch of the

circled, in perfect formation. Many of them, I saw, exc-

or heavy stones and masses of metal.

winged steed of Sam's. Even as I looked, the red tenza-

The weird, amuzing creature dived. An incredible thing it was, with its armored brown body as large as a shark's, with the vast flower of the flowing colors about its head, with red testacles like those of a girantic scarlet octopus, and with wings like those of a green similare! It bore down upon me! A great crimion tentacle the air, held lightly in that stratur erson, and lifted until I was face to face with Sam, who sat astride the creature! He reached out his strong brown hand and grasped my

"Mel, old man, it's some luck to find you! And what do you think of my army? A couple of the flying drawons exceeded Alex and me, so I've been making the telligent, and I've been drilling them for months. They're hereditary enemies of the alien civilization, anyhow, There's going to be some fight when we meet the silver He had not noticed my strange condition.

At last I was sufficiently recovered to speak, "Two got a ton of nitroglycerine in that rock." I stammered My wore had a curious rusty sound. "Nitroglycerine! You've been making it, and planting comes Xenora to have that damned metal her on her?"

Abruptly I broke down into uncontrollable team of relief and joy. I did not try to answer. In a few minuses the vast army of winged monsters had wheeled about, and was headed north again, over the crimson mosts-line after regular line of beating green wines that bore the strangest army of history to the strangest buttle ever fought!

But, at the moment, I was paying little attention, for I was mounted on another of those wast flying creatures; scious, sleeping the sleep of utter exhaustion. But she was free again from the Lord of Flame! With team of joy streaming down my face, I tried to dress her bleeding hands and feet.

# When the Red Roof Fell

ABRUPTLY a green light ran through the rosy haze beneath us, and that dreadful twisting har A near honearth us, and that through twisting out of radiance—that hving, alien tongue of fire the serpent-like head of the Lord of Flame, was thrust up out of the flickering violet! With its strange, writhing motion, it swept in a wide arc, as though it saw us! It searched the sky, and then drew back in alarm! The terrible, dyshmic throb of the emerald gloun in it grew faster!

And quickly the crimson sky alread of our flying army of green-varied monsters was filled twith feets of the silver upbers! They rose swiftly, by the lumdred, in long, pleasing lines—Boating, defilling, durting, as though carried in swift, cyclonic winds. And then in smoothly suffice seasoftens they advanced to meet us.

long, gleaning lines—duating, drifting, during, as though carried in swift, eyelenic winds. And then in smoothly sailing squadrons they advanced to meet us, with the swifting green mists of the disintegration force reaching out before them!

The aerial battle-lines met! The winged measurer indeed in all coeffice with the solver short! It was a

The arcial battle-lines met! The winged measures joined in mad conflict with the after ships! It was a farce struggle—a terrible scene! The plant things sweps to the attack, scores in number for each great ship. With desperate, incredible energy they wished their gizzattic clubs and spears; or, wheeling high above the

abler vastele droppet their minette down your them. And the soft searching figures of people man reached out of the older shop, to guide the third, routing voteness of atomic distinctions. Under their trible feere of flowing prom, the plant creatures turned red, bottled or for a moment in they glowed with an avoid scales residence, and felt in a rain of crimons sparts that fast faded into modification.

And ever the thrubbing emerald colourn rising above the sea of ruby most below us—the writhing serpentine but of green that was the Lord of Flame—moved and leaving direction to acquise!

crofible attempth! In ones and twos and theres, the alver vessels fell, in twisted, battered westlage—fell among the showers of yards from the vanished crostures that had crushed thesa! It was a battle of arimal strength and courage, of

desperate, savage energy—against deliberate, inhamms selected: It was the bottle of the mad, elemental beast against olicit, pithess power! And the plants wen! As the monsters that carried Sam and Xanora, and

As the monaters that current Sam and Austons and myself averp along high above the line of battle, we saw the silver ships give way, saw them drop into the read mit, with the avenging, victorious plants following close upon them!

And then my mine went off!

A wast white cloud of smoke and shattered rock rose deliberately above the cliffs, spread into a Titame number

room shape, and fell in a great rain of debeis into the abyes and into the lake. After many accunds the acound of it reached up—a crashing, deafening blast? The great wave of air swept up the green-winged flort like leaves on a stormy lake? Below the cloud of moke, where the black cliffs had

been, I saw a vast white sheet of waters—a rushing Niappea multiploof manifold—plunging over the hemic in a sheer and gleaning are! Even as I guard as it, in dased wonder at the thing

Even as I gazed at it, in duted wonder at the thing I had wrought, Sun was suddenly close health me, abouting semething with slarm and urgent command in his valoe.

"Md-the roof! Where is the Omrimobile? For God's sale---"
"In a crafer in the abyse, by the metal cylinder," I

eried, wondering.

Then I looked up, and saw that the flat reof was complied up. Fig. a visit inverted basin! The waters

above were rising!

were folded! We dropped like planmate into the crisino min! The voice pleas negarent, and we made out the crates-pitted floor. I altouted directions, and in a few animate was eartful into the some little crater is which I had mer dissers.

Which I had mer dissers.

The creatures that beer as dropped near the ground the little of timeless set or greatly down on the

Those great red transies set us gently down on the recise by the mechine. Sum led the way and I carried Xenora. Desperately we scrambled shoard and screwed down the markole. Sum's mount, Alexander, plumped

into a curious attende of dejection.

Sendamly one of the silver vessels shot into view above
the center's rim, deficing awrifuly towards us! The machine
was wanthed! It had been left as a trap! The thirp
finabling beams of purple finme reached out eagetly.

found the Omnimobile. The whirling spirals of thick green unit extended toward mal. Som familiated with the dials and made a hopeless gesture. Then I saw Alexander spring into the ale and fly toward the terrible pleasing thing! With smal, despende used, the plant creature dashed straight into the

fearful swirling man! It charged on through it! Already glowing red with the disintegration beam, it struck the whote machine with terrific force! The aspect globe passed, hung uncertainty, and then full with swift seculeration until it creshed upon the walls of the rise with the content of the content.

herooc plant selfa diagring to it in the agony of a fearful docum!

For a long memore Som was still. Suddenly be aroused hemself as if from a dase of pain, and turned again to the instrument boards.

"The earth is not freuen!" It should. "The power is the other is dead!" I thought of the havoe my cannot fine had wrought with the matchines about the flarring beain.

In a moment he had the generators going, and the

In a moment he had the generators going, and the g machine crawling to an upright position. Then he tunned on the rocket tubes. The crater was falled with the rearing jets of steam, and we were hurled into the columne sky!

I had a fleeting gitmose of the metal brain—the wast

e cylinder of violet—with the green beam util throbbing
from it, and with the last of the silver ships bathing
the victorious namy of plants that swommed about it!

The roof is hifting "Sam cried. "The equilibrium
was very defloate—the gas that kapt issuing from the
card was Effing the waters to the drarger point, and
your explosion carried them out! The attemnt to freeze

the earth was probably undertaken because a roof of ion would have been more secure? His voice was downed in a fresh rashing, whistling being from the rocket tubes. I carried the intert form of Xenora down to the cabit, and did my heat to care

benst from the rocket tubes. I carried the lisert form of Xenora down to the cabin, and did my best to care for her. In a few moments we were above the base. I I nook a lest glimpse of the green and puryle forests dropping away bulow us, and turned again to the un-

I note a last glimps of the green and purple forests dropping away below us, and turned again to the unconscious glid.

Soon the force red given that poured in the porttail me that we had reached the red roof. And suddenly the Omnimolite was pitching and spinning modify, with wild waters thundeling a against her side. A count reached my ears-a roar, dull, distant and slumberous sound! It seemed an eternity that I held the sleening girl upon the tossing couch, while the very heavens

Abrurely, the bloody glare grew lighter, and was streaked with shafts of bright sunshine-white, precious

smight of the upper earth? We had followed the vast bubble of gas through the roof of waters! The rod mists cleared-drew up into the blue woult above-erpelled into onter space!

We were flying in the cold white light, above a mad In fifteen minutes Sam had brought the muchine down upon an ocean that was still heaving madly from

the cabin, and under his skilful ministrations Xenora. which she would wake herself again.

Presently Sam questioned me about my adventures. I gave him the whole account and concluded with the question that, for months, my troubled mind had striven

so vainly to answer. "Sam, hore could intelligence exist in metal?"

"Why not in metal, Mel?" the old scientist replied, smiling thoughtfully. "Why not there as well as in himps of impure carbon and water, as one of the early savants called us? But do you remember the radioactivity of the metal bar, and the fittle cells of helium ens in it? I think the radium had somehow set we neuronic circuits between the cells. Her the circuits between the neurone cells in our brains. It is not impos-

sible. That was a helium bosin-but it was formed as naturally as yours or mine!" On May 4, 2000 A. D., just a year after the beginning

of my story, our kisyrely homeward cruise was ended. The green coast of Florida rose out of the clear blue ara before us. Xenora and I stood on the deck, happy

in the cool salty air and the bright smalight. The girl was lost in want delight at the new wooders of arme sea and sapphire sky. At last the dream of my life was The wonderful girl of my fancy was by my side, to

But she was the Green Girl no longer! A week of tint of her clear skin, and replaced it with a light. smooth tan!

# READERS of Amazone Streets have frequently commuted upon the fact that there is more actual knowledge to be gained through reading its pages than from many a textbook. Moreover, most of the stores are written

What Do You Know? The questions which we give below are all assumed on the paper as listed at the end of the questions. Please

are if you can answer the questions without looking for the narwer, and see how well you check up on your general 1. How lone would it take to go to the star Siries. 9. What do you know about the tourseo? (See pages

traveling with the speed of light? (See page 2.) 2. What factor of light would interfere with television surgitaneous radio reception from planet to

1 What are characteristics of interstellar space?

4. What would be the assayrest weight of a 200-th, man under the effects of acceleration of 160,000 fort per

5. Can you describe in detail the relations of a pleast to

7. What is the life of the worker and? Has the ant a

What is the nature and function of a norse; and what is a "norse message"? (See page 27.)

10. In what part of the heavens is the exceediation Andromada to be found? What colclyrated schools

II. How does this sabels compare with others of its true? (San upon 45.)

12. What relation between bear best and music is chimed 13. What electes in the orchestra is most noticed by the

14. Can was more a popular theory about the action of

How would you go about making aitro-glycerise to a wifelenses? (See man 7a.)

Sequel to THE SKYLARK OF SPACE Begins in August and continues for three consecutive issues.

SKYLARK THREE, By Edward E. Smith, Ph.D. Order your cooles now from your newsdealer, or send your subscription direct to

Awarren Storens, 381 Fourth Avenue, New York City.

# The Conquest of the Earth

### By Isaac R. Nathanson (Continued from case 54)

Of course, there was great danger in handling the out the possibility of its setting out of control altowriber. and destroying the whole earth. But the condition of

markind was insufferable and, as far as one could forethan to be dominated and driven about His wild beasts. It was solemely decided, that come what will, here was a weapon that offered the only possible salvarion-a

most terrible, infinitely powerful wrapper. The soul of Man rose to its supreme height,

The execution of the project called for a vast amount of labor and the highest technical skill in its neroprotion But willing bonds there were and keen bearns; and about the desired result the atomic conflagration had so many places at once. The technique of induction was a long and skiffed process and required a preciably resided technical intowledge, which few possessed. In fact, in wax extremely difficult to induce this excitation, in view of the newness of the process, which, like all new dis-

only the years can develop. But once started the best generated by the liberated forces within the atoms roared with an explosive flerceness, unapproachable and A selected number of highly skilled technicians, drawn Dr. Hopkins, who carefully and patiently imported to

A day came when all was in readiness. As right parts of the earth, those entrusted with the final exerntion of the great strategy faced forth. Several scores of the new racing planes, each starting from a specifically selected point, seed atraight for the enemy. In the six hundred miles an hour toward their definite objectives. It was a very dangerous undertaking. The population of the Andromedans had by now become very dense. In many selected spots, free of the enemy, but in the heart of their territory, landing parties were to forces. This usually took several hours; and ombably only a few of the fanding parties would succeed-but

that was enough. With palpitating hearts, with nerves strained to the breaking point, the result was awaited. Of the hundreds of planes, only twenty-three returned. They reported complete success,

In many places, in widely scattered parts right in the midst of the enemy, the irresistible atomic fires had been started. By the time the Andromedans had fully unkeped to the full sensousness of their danger, the confligration had spread to an extent there was no stonping. With all their knowledge, with all their science

and skill, with all the tremendous power at their disposal they were unable to exerch the fiery serred. Although the Andromedan civilization was much older and more developed in many ways, they had never succreded in solving completely the problem of controlling

intra-etomic energy. The energy which they utilizedblody it was a partial tapping of atomic force-way powerful and terrible enough, and we had been unable or control this new fierce energy which we released. And

In vain they tried every method. In vain, with every march. The blinding glare lit the sloes; night could scarcely be sold from day; rosring, deadly gases enveloped larger and larger areas. Until finally, the continuing spread of the all-devouring configuration had grown to such proportions over such large areas that the

they would all be consumed in its rouring flame They made a tremendous effort to escape from this entire earth, a new star, bereft of all life, would anmornoe itself in the firmament"-so they thought, so rewealed by records they left behind. Their whole energies were devoted toward brilding vast numbers of their space-traveling globes, to take them back to their remore homeland. The clane and din of their hurried and descerate efforts to escape was a sight for the gods; the

And now the last of the Andromedeus departed from the earth, with the deprecations and curves of all hismanity Many perished in the flames. The few remaining were put to death, as in their terribly disorganized state they could offer no adscuste registance

Then began a race with the oil-coreading atomic New And here was where our complete preparations sayed stance capable of stopping the world conflagration had

been manufactured and held in readiness. An entire willing humanity, young and old, buckled down to the berea-The horamas, the thanksgiving that rose to high

(Continued on Juge 82)

ISTORY roomes that the last effort of munking

# The Feathered Detective

(Continued from page 41)

impriess on both the door and the window-ledge? I could think of no good reason for the man's wet limits other that that is had been aiming, and in climbing in by the window he had wet his hands. But quite obviously, had his hands been wet when he first centered the room, they would not have remained wet during the time that he erept on the dome; witchin, strengled him, searched

he crept on his dooing victin, strongled him, searched through his podent and prichase ripped open the bugs before killing the blrd.

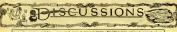
"Morrovert, he presence of the fingerprinsis on the dear continued me that he had decided to leave that way and had changed his smit and had gone by the window. One of the smit had had gone by the window. Goo? Ralin, hard min again, I decided. And year aswerts to use granulties proved that it had raised, generally,

mender. Beddest if it had been snining, the compassed of the route words, in all therblood, have cloud and belded the route words, in all therblood, have cloud and belded must who had allfied the kird hed just come for from the route. I have been all the properties of the same was been to rane. For what reason? I all probability to source at ond one in same way which the story the bags, and the route of the same route which the same route the light the corrid in non-man. The could should got the local the same route of the same route which the same local the same route which the same route which the never have been account.

THE END

(Continued from page 81) heaven have never been equaled. The frenzied joy at the great deliverance will go down in memory as long as the world lasts. The free which the very soul of man had

passed through and burned out the dross of the ages' oldbarreds and divisions which had afflicted marketind from the time immemoral; the narrow things and the petty were ad all wiped out. There would be enough for all. Our Exc.



In the department we shall discuss, every mouth, topics of interest or content. The objects have consequences on all subjects effectly or inclinately released to the second of the content of the content parameter and an extension of the content o

THE SCHNICE CORRESPONDENCE CAUSE States, Absence from a such a report of the Science Coveragencies of Cale States, and a such as a such as a such a such as a such as a such as a such a such as a su

The carbination will because no organism mithable better co-nellucion becomes the disolary include legisms of the metric, and disolary include legisms of the metric, and of size, street, color, or then. These will constitute on to sage, populating the methpose or consequence which shall be propther member-day consequence. Dan't be also the member-day consequence. Dan't be also the member-day consequence. Dan't be also the member-day consequence there is no the member-day consequence can the pro-

The does shall be \$1.00 per seems and will convent publication and detrolotion at the Converse and a simplicity amount of statement and statement to take more larger to the converse and a statement of the converse and the conve

De State has been en hause de merit. De State has been en hause met 1. De 1992 de 1992

Beneather, Mr. Kaymond A. Phiner, 1421 20th St., Midwarden, W.S., Will hardle of a polyamban for membrahay and from reinforced property. Bell at make 1700 n year to be remembered to the S. G. C. Waler, L. Demis.

(We are note than pleased to public the Chic has made a wanderful a shell hold our column span for furthof general interest to our reserve and i THE S. O. C. AND AMAZING STORIES, COMMERTE ON THE MAGAZINE AS IT SHOW APPLACES

Enter Amazine Streets

Mr. Dissan, when briest have oppound in your politication, has subsorbed my more as offshe rather to several of the better, therefore I do that it is only proper that I would had in a only proper that I would had in the large politication or any two bodies, and that me also politication or any two bodies, and that me also

patter in actual of the heron, threshow I had that it is not graver that I wave is inliked to you published in a my row bold, and that our labor published in a my row bold, and that our labor of the complete of the captions and server it by Cub that how, green by Mr. Dennis, and server of the complete of the captions and server of the complete of the caption of the complete of the other methods. If the purposes of the comtinues of the ward in join the clib.

The Cub had not support only the server of the month of it winter. We set a hour of this most of it winter. We set a hour of the comment of it winter. We set a hour of the we have such 200 members and savey applicables we have such 200 members and savey applicables.

Alexency, this is a subseque leading. We dee leading synthesis that you have conceeded to become as homeony membridge occurs. I am more that you will not then recovery to the second so that the second so the second so that the second so the sec

I mean the Taxontonia I do not use in PacPa Discretions I depoyed the notify and I am not every one of year days not us the Homes, I shall April, 1930

AMAZING STORIES

Open this FREE BOOK

and you open the door to

UCCESS in RADIO

Easy to Learn Radio
At Home in Your Spare Time
Let the RCA Institutes Home Laboratory Training Courte give you the real inside facts of
radio . . quickly and easily. Use your spare

Clip this Coupon NOW :

"Radio... the Field of Unilmited Opportunity" Start today on the road to Spacess in Radio... Start today on the road to Spacess in Radio... Start today on the road to Spaces and text toding you all you want to know about RCA institutes, the coldest and forement Radio training organisation in the world. Radio can assay be YOUR ROAD TO SUCCESS... That's why you about TO SUCCESS... That's why you about

outlay of screen-grid apparatus given to every atodest of this course. You learn how to solve every radio problem such as installing, repairing and servicing fine sets. This is the training

RCA Graduates in Big Demand For more than 20 years, there has been a well-

paid position in Radio waiting for practically

every graduate of ECA Institutes. This is a

BOA DESERVATA, Inc.
Days, EX-4, N Vanish Street, New York
Gentlemen; Frame send on your FREE shoops be
when Chesteness the Indiant opportunities in Reand describes your absorber; maked of bentyrets

Ness.....

RCA INSTITUTES, INC.

RCF

# In the Realm of Books

# MOSTLY SCIENTIFIC FICTION

Page Dara

The first Step." In John Tales, Publisher St. 2009. P. Delme & C. S. See York. 2009. P. Delme & C. S. See York. 2009. P. Delme & C. See York. 2009. P. Delme & C. See York. 2009. P. Delme St. See St.

the control of the co

growth, bet sevines the affacts of glands generating the satelforations brits and you! In other words, the the second of the satelle below that the second of the second of the Swinth wife and Gaugher second the indiffuse runs. McKey, who is approximate and the second of the experiment substance in a vant went deposit, in brisned excessing but has reason second left to dignish. So to Chicago in other to surreau aduat Obiting, meets several comment, who come interested in just one without in grant of it, they we strongly be a people or a people

"The Irm Star" is a very contribuling book, which can homestly be representeded to all lowers of fartunds liganization— C. A. R.

Mystic Stories
"Others Wise Returned," by H. R. Wales

field, pebblished by D. Applican & New York, \$200.

THIS volume contains 15 stocks, will be welcomed by the mystle

inclined and condensed by those whose minds demmed as explantion. We, Wakefield's style in very agreedia and roads well. Some of the minies are publically treeting and beautiful as for features. "Promat at the Eart". All of the stories are charmingly written and very ably constructed. They contain descriptions of encoplanted mentions and accommendation in managed and and accommendation of the containing and and accommendation of the containing and and accommendation of the containing and and and accommendation of the containing and accommendation of the accommendation of the containing accommendation of the containing accommendation of the accommendation of the containing accommendation of the containing accommendation of the accommendation of the containing accommendation of the containing accommendation of the accommendation of the containing accommendation of the containing accommendation of the accommendation of the containing accommendation of the containing accommendation of the accommendation of the containing accommendation of the containing ac the explanation, if he can, For that read a mean appeal to the mostic.—C. A. E.

A Satiriosal Novel

A Satirioal Novel

Desirchland Obse Desirchler (German
without German), by Hers Heyel
Published by L. Stanchman, Lepus
Germany, \$2,00.

A mere repropose on the harde placet of Money of

—all feeding continue and shelt-selected spars with new and respect. This plantist wouldness per record from the plantist wouldness per record from the interest of the period of the period it is only the much sentimend satter. In the course of the period of the death stage of the world of death stage facility with the project death of the period of the period of carrier to connect Americals with Euro The project has been proposed by a G mun Engineer called "Sig Lumm." (I mant of the newer German body, t

must of the sever German bode, it one is also simply know with all leids. English engoverious? Hig Lion, a six problem of low as necroical and so are reas German in the sections part of right. All nights, as his laif while right. All nights, as his laif while supposed to carry or this project, has fine firm Germany after hexing fall behalf they have. He shally laifs

odes, while the tunnel ble made eruptions, "he technical part, descr April, 1930 AMAZING STORIES Home-Study

Business Training



RUSS USERS

**ELECTRIFY YOUR** RADIO FOR ONLY



\$1,000 REWARD:

Not Experienced Detectives-Just Ordinary Men

Learn the Secrets of Identification

SOMETHING ABOUT THE CORRESPOND. ENCE CLUB—THEOSY OF THE ACTIONA DOMESTIS

Estor, America Screens.

I will pass over the colorate point inhight

magnate, I re

Life of the Party! RANKLY educk that until recently mg wallfower who ever dered to go to e But my Ille has certainly shanged. Instead of overhearing tryself referred to as an

Don't think I'm bregging. I remember all where it beloods. Some time age I read un ed just se you'r

Seing now shoet Duminger's Longue hood-"POPULAR MAGIC AND CARD TRICKS" As it you only \$50 with I received the book by return mail and was At the next party I went to I gave a new

You too, can extended and assessed year the more than 200 made tricks this book

explains in simple English and pury to Never hefore have you had a shance to get brake lett-

Clip and Mail TODAY!

I medium the the stange, sele or mean-ments; is fell protect for Feel December) is feel protect for 100 mags book - FOVIL to MAGIC AND CARD TAILEY—while is in medium of the shipped to me by return and

How To Win at Beligs

CELLO PRODUCTS CORPORATION FREE BOOKS of Carpentry Selfding Concreting Concreting Object Matel Week REDERICK J. DRAKE & CO., Publishers

STYLE NO. 134

GIVEN .:

AMAZING STORIES UNDREDS COOKE MAKING 60 to 100 A WEEK LEARN AT HOME IN SPARE TIME PREVIOUS EXPERIENCE NOT NEED L. L. COOKE SCHOOL OF ELECTRICITY Subscription Price Going Up # SAVE \$100 to \$500\_See Page 4 WIN\$20009/ Name the Dogs

Photographs, Maps, Diagrams. Contents Equivalent to

a 300-Page Library-Size Volume!

THE SINSTEIN THRORY PROM A DEMENSION STORIES DEMENSION STORIES

Complete Course in Fundamentals of SOC

LYING FOR EVERBODY" is just the book you've been waiting for-the one complete and unshridged Aviation Manual which covers every phase of fiving from the ground up. Condensed in its pages is the essence of the lifetime experiences of Aviation's foremost surborities. Here are but brief glimoses of the subjects covered in its

ERODYNAMICS AND AIRCRAFT NOINEERING - Stability, Lift and Orag. Aspect Ratio Functions of each TYPES OF PLANES-Hallcopters, Au-

AVIGATION - Principles, Settants, brice, Blind Flying, Plotting Courses.

GETTINO INTO AVIATION-IS demand for Arrest to the depart for Arrest and League of Assertica. Correspondence courses. Plying schools. Physical tests. Cost. Military tests. IOBS IN THE AVIATION INDUS-

LEARNING EACH PHASE OF FLY-INO.—Take-off. Climbing. Controls. Turning and Bunking. Gilding. Land-ing. Tayling.

STUNY PLYING-Sharp terms. Loop-

Complete Book Only 50c

AERO NEWS AND MECHANICS is

would cost at favor \$1000 But while

Management = Clip and Mail Coupon TODAY

MACKINNON-FLY PUBLICATIONS, Inc., Dept. 2004-0. Occiones. Fines and me a copy of your hig, associate and undesignd horiz, "FLYENG DARRYTODY." Restored to the carean barried order of nets like as associate personnel. 

ASSEMBLING AND TESTING-IN-

Therty, in describing how the Nephanian the mirth, the authors state that, "Two had it by largest to had warm from the fraction of mar, when they were out of it," Let me

whether the sales maybe to Tercholess Stated and as the saccillation of the entered also Cotton for Tank, they small quiescent the jeth of the event and caser a sallacian. Parkays are verposed as the saccidated bearing the probability of the sales and the property of the probability of the sales and the property of the probability of the fore "as a position of test the backets would feel hand to apply a few which would have de-duced to the property of the probability of the sales from the case (well accidence to as of

produce \$100.

Filthly: The profesio free would never roads.
Suptime—or any other planet. This is because the other of the planets all in in about the same planet, and the roads of the part and the profesion of the same thereof enter.

Posti Frendel, Jr., R. No. 1, Nov. 207, Sto. D. Milwaden, Wo.

The Psycho-Phone Co., Inc., 103 Lafayette St., New York.

- Mall NOW for PREE Book --Pepeko-Phone Company, Dayt. A. Confinence. Please and see your PXE only, "The limited of the Supervisor," who uplants is now way at gotting the design teast to 16s.



Now It's Ensyt Get Rid of Fatt

MOST assumedly there is not!

Look about you! On all sides you will see men steady forgong about to health, prosperity and large-

Psycho-Phone will help you necom-glab just that. It has enoted men and wanted in every walk of his along Why he medicers when there has

Don't Delay-Write Today! FREE COPY!



ING STORIES April, 1930

and and count the authors to complete Muscle Building after a count, by Course, including Exercisers, \$100



LEARN the BANJO

of the White Personal and CLICQUOT CALM EXEMPLE.

"On the Exemiliar draws from them to the Control of the Contr

South and the state of the stat

With factor for the time of the second of th

DASHFULL PASHFULL PASHFU

AVIATION FRI

to come in converting units of a value of the converting units a detailed of the converting units and converting units units and converting units units and converting units units and converting units and converting units and converting units and as seen at a converting units and as a converting units of the converting units units units and units uni

Stephen M. Breath.
Landon Rand, Oxidong,
that our auditors are goine to
to the first there are only to
to world and that the colors
formathing all the same part
to provide the same part
to be provided to the same
to be provided to select
the same part
to the same

had in an good that they need to the control of the

require (which is livery upon in the relay). Asliver is used to forth years, the relation of the make up, loweren, it the increasing makes one work weight under it. Obreally matter in the first relation of the matter in the first large over the same, it. MONEY FOR YOU AT HOME

POWER DESIGNATION AND ASSESSMENT OF THE PARTY OF THE PART

I CHALLENGE

of the care after to an a to be proved to be the property of the care of the c

Aveilable at Nominal Cost

Complete Set of Blusprints
of Lincoln Sport Plane,
86.78.

Gentler Monrolone et el

\$6.75.

¶ Gerber Monoplane—set of Blueprints, \$1.60.

Send Orders to Blueprint Dept.

SCHNOR AND INVENTION 381 Fourth Avenue New York City April, 1930

AMAZING STORIES



LOW THESE RULES The offer is one to

v Jane 1970. 1978. Should two or game persons sphere as equally for the bases, the 7th seconds of the State Second of the State Office. It was the State Office REE's apposition of your bone or property a name to be bone ped order, we will do you First and Postryally flow plans and king pelos as bonefied bone. Unbested

The strong instrument under the strong and the stro

LAND CREEKS or, Alazania Brossana or culta a linta luma-ulusat a prese to be n-I wanted to tell you what I timeghe alone concretion. Though I use cult a luma larg-my" new boy, I feel it my dury to unless my area boy. I feel it my dury to unless

THE GRAVITY SCREEN AGAIN

wi delawe above it we recent of the pull of earth to other side of the occess. C. A. Showman.

Study at home

# A-C RADIO!

Boot, E-815 Spensi Are, & Sich St. Galerre

Railway Postal Clerk \$1900 to \$2700 a Year Paris P. Communication and Property and Prop

commissions, you also re crite monthly boyse checks ou feel at all interest the courses below. but may lead to a substantia everything you need free of charge. Every day you delay in a money-making opportunity lost, so

Mail This Coupen New ! The Markinson-Fly Publications,

351 Fourth Ave., New York, N. Y.

ETREET

Own

Wouldn't You Like to Have Your

**Business?** 

TO HAVE an extra, inde-

whenever it suits your conve-nience? Make a host of new

perience from contact with

harmeness that comes from

foing something really worth

Then our easy money-makin

of the new and renewal rela-actipitate for Science and In-vention, Screen Book, Rudio News, Aero Mechanica Phili-

IMMEDIATE

PROFITS You begin earning monor at once-the very first boar year

THE CORRECT EXPENITION OF THE TEXT AND THE T

Some a trait to the within which when the for himley quiet de Irolant. If you were up a something world, from more that each you would gain a the formal to the property of the contract of the world, from more than each you would gain a the formal to the contract of the contract of the formal to the contract of the contract of the formal to the contract of the contract of the particular to the contract of the contract of the particular to the contract of the contract of the particular to the contract of the contract of the particular to the contract of the contract o

Gerbro. M Millie.

(Orleg to the difference of time, It years around the search It code for the product and the code for the product and the code for the code for the code of trend in short the code for the code of trend in short the time the code of trend in short the time that the code of th

same number of locars. Efter A. For his works are year, and the street of the Mental Section of the Section of the street of the Mental Section of the Section of the Section of August 19 and 19 and

Langular, but consider if set if proof it Assemcounts. It can a pool early he is place and he littered to the flow.

Littered to the flow and the compelling of the conlittered to the proposed trap to them with Runs with Runs when the proposed trap to Mann with Runs who as the con
tion and larve it you to therefore.

To Su-By all means here, Ween and Money 

Ratestyler.

Did Veryton Anneas, 

Hagenviews, Maryland

Repertures, Maryland Thorse containly was your dould of light to in the step "The The Courte Landed" a shall began to get some produce could go to go to some produce could go to go the courter of the Courte Court

The second secon

THE PLANT REVOLT
by Edmand Examines
the April IncomedWeird Tales

Pathy Government of the Committee of the

Be The Man Behind The Co

with the first present of the property of the

institute of Philippene K-Pull, West hard to rea, to get a principal to to your Philippene in 18th unifor a int Philippene manufacture Projectach lies, Firstern Projectach for Firstern Projectach of Firstern Projectach









Photography Photography

CEARS

In the state of the stat

Write for Information About the MSSP
H.F-L. MASTERTONE
Laboratory-Made Receiver
The year's estateding Robo Arbitrone

MAKE BIG MON

Ten are, Little are beingle

MISTERY GAS LIGHT

TOTAL OF DESCRIPTION OF THE

the out of us sings the secretary 200 Commonwealth Ave, O. C. Greege 200 Commonwealth Commonwealth

and the second of the second o

in find out if you have any ning "The Moon of Desersing "The Moon of Desering the way of the party of first same of Amateur Do this Information requaling to Moon Pool" and "Accounted services I believe man it

> at in the piece and whet are into much of these means in them in both the Correct of Guille it meyeres releasely from Bobblands, 23 at Seconds Avenue, about, Long Island, N. Y. you not for you one about

where the party was the colour late sales. The worky weeks are considered was the many of the worky weeks are considered was to be the care above that we do not come more as as to take care at the unassistance of count of — Linears, but A CET OF AREALTHO STORIES FOR SALE Education, Amounts Systems. Keeley pict to the 12 year Divergition Colours. Keeley pict to the 12 year Divergition Colours.

> me to add that Americans and that I will minding estimated? To make Yes, 2023 S. Brake Sa,

Magic



Quickly! Easily!

Out offerest Dr. Harten Tarbell,

Frances Margic Warrel, Itaches you
kg Tricks, Basion, Suge Starrie,

Tricks, Basion, Suge Starrie,

Tricks of the Principles of Marci.

You been early and questy at hear by and. Iam \$500 to \$100 a moon Write today for by details.

Astonish
Your Friends

has you the center of may crown stress and social success is assured man who can perform mayoriting the You can earn hig meetry of the side or as a professional, as well being the most popular person to years and years and years and years and years and when the most popular person to years and the country why many others and it is count. May many others and the country of the person to be the person of th

Earn \$250

to \$1000 a Month

B. Havis Turbell, one of the realty
Great Magnizan, has finally opened us
to access of this preference in a contine access of this preference in a continetty nominal con. The appearance
superstrains of opens of the access
superstrains of opens of the access

of implicion becomes as simple BC when you just knew how.

"FILE! the fire Mann threeted Tarted Course Land. the Couross and Lang Planta Days. On Our ross and Lang Planta Days. On Our part of the Course Lang.

Process Log Posses Fig. ball System, Enc., Static Escap Semeralde Avenue, Calego, Ill. bell System, Inc., Static Ling. & Summylde Avenue, Chinage, HL. Static Ling. Static Ling.

Georgean. Within mer shipping and me fine the most me fine the most per shipping as a short; year dealer, 'Restant Common to March 'S had been from the most per fine the most per fine that are shown in the most per fine that me fine the most per fine the mos

# MACKINNON«FLY NEWS BULLETIN 10736 PATE

# OR. NIKOLA TESLA MAPS AMAZING ELECTRICAL WORLD OF FUTURE

# Wireless Power, Simplified Television, **Cathode Rays to Revolutionize** Our Homes and Industries



not as an imprinative "philesopher" but as an experimental Dr. Nikola Teebs "Were we to efficience from our todos- )

RACE PREIMOIGE KILLED HER LOVE

Was He "Son of the Gods" Or Son of a Street-Walker?

tern Lee was rich-a veritable prince The successe distinguished to the to SCHNCH & INVENTION Day you him she full only physical representation

tog Stament-less lamps which throw a

Dr. Whole Tects, perhaps the greatest electrical wirard albetoday, forecasts the astrophical electrical future of the world.

and arach celesister.

GOLD IN ANTARCTICA

Little did the Overmander dreion that

Loftin-White have seen again committee the Emailight of possio esteem with

DOUBLE MURDER MYSTERY IN FLORIDA

THROWN OUT OF

PLANE IN LOOP

Buildy Bushmeyer, world's poemiers

NEW AMPLIFIER A RADIO MIRACLE

ALL ON SALE NOW-BUY THEM TODAY